# NEW HORIZON COLLEGE OF ENGINEERING
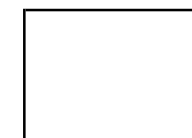## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
## Project- Details with Titles for the Academic year 2023-24

| SL.NO | Sl.No. | Batch No | USN | Name of the Student | Title of the Project | Guide's Name |
|---|---|---|---|---|---|---|
| 1 | | | 1NH20IS104 | Manoj P | | |
| 2 | | | 1NH20IS117 | Pranshu | | |
| 3 | | | 1NH21IS410 | T S Palgun Jain | IoT based Face Recognition using AI | |
| 4 | 1 | 1 | 1NH21IS408 | Naveen Gowda B | Robot | Dr.K Saravanan |
| 5 | | | 1NH20IS019 | Ashutosh Biswal | | |
| 6 | | | 1NH20IS003 | Aakash Ranjan | | |
| 7 | | | 1NH20IS098 | Nistha Srivastava | Therapeutic System using Machine | |
| 8 | 2 | 2 | 1NH20IS015 | Aniket Metkari | Learning Algorithm | Dr. Arvind S Kapse |
| 9 | | | 1NH20IS088 | Vamsi Krishna sai | | |
| 10 | | | 1NH20IS109 | Pinaki Sankar Matruprasad | Agripulse - Revolutioning Agriculture | |
| 11 | | | 1NH21IS409 | Om Gawade | through Wireless Sensor Networks | |
| 12 | 3 | 3 | 1NH20IS094 | Nikhil Kamate | and Machine Learning | Dr.Kalaivani |
| 13 | | | 1NH20IS040 | Darshini R | | |
| 14 | | | 1NH20IS124 | Monisha Yadav | | |
| 15 | | | 1NH20IS186 | Yuktha S | Aurdini based Air Quality Monitoring | |
| 16 | 4 | 4 | 1NH20IS148 | Santosh Reddy | Robot - ML Analysis | Dr. Sivaramkrishnan S |
| 17 | | | 1NH20IS120 | Preethi k M | | |
| 18 | | | 1NH20IS025 | Bhoomika.B | | |
| 19 | | | 1NH20IS203 | Madhushree P M | Non Breachable Home Security | |
| 20 | 5 | 5 | 1NH20IS195 | **Poovizhi**. R | Syatem with Ultrasonic Sensor | Dr. Rajlakshmi Ghatkamble |
| 21 | | | 1NH21IS400 | Abu Talib | | |
| 22 | | | 1NH20IS174 | Syed Abul Nashaath | | |
| 23 | | | 1NH20IS004 | Aastha Priya | Innovation For Inclusive Living - Sign | |
| 24 | 6 | 6 | 1NH20IS151 | Shamael Hashmi | Language translation | Dr.Vandana .C.P |
| 25 | | | 1NH20IS118 | Pratiksha R K | | |
| 26 | | | 1NH20IS129 | Rayid Ahmed | | |
| 27 | 7 | 7 | 1NH20IS069 | K N Pranav Srinivasan | Piracy Obliterator | Dr. R J Anandhi |
| 28 | | | 1NH20IS070 | Kamboji Akhilesh | | |
| 29 | | | 1NH20IS036 | Chinmaya C B | | |
| 30 | | | 1NH20IS145 | Saket Kumar | | |
| 31 | 8 | 8 | 1NH20IS071 | Karthik E | FlexOs- The OS of the future | Dr. Divya Kumari |
| 32 | | | 1NH20IS017 | Aruna K | | |
| 33 | | | 1NH20IS059 | Harshitha N M | | |
| 34 | | | 1NH20IS010 | Akash S | | |
| 35 | 9 | 9 | 1NH20IS048 | Ellury Sai Vamshi Krishna | Smart Aquarium | Mrs Divya |
| 36 | | | 1NH20IS053 | Hardik Rusiya | Mitigating Online Fraus: | |
| 37 | | | 1NH20IS016 | Arnav Pandey | Understanding phishing threats and | |
| 38 | | | 1NH20IS041 | Deepthi BS | Prevention strategies using Machine | |
| 39 | 10 | 10 | 1NH20IS026 | Bindu K | Learning | Ms. T N Chitti |
| 40 | | | 1NH20IS052 | G Harihara Sainath Reddy | | |
| 41 | | | 1NH20IS021 | B Venkata krishna chaitanya | | |
| 42 | | | 1NH20IS047 | D V R Sugnan | IoT Trash:Intelligence Waste sorting | |
| 43 | 11 | 11 | 1NH20IS042 | D Maneesh Reddy | with Machine Learning Technology | Ms. Priya |
| 44 | | | 1NH20IS080 | M Mohamed Khalid | | |
| 45 | | | 1NH20IS134 | Rohan Nagarkatte | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 46 | | | 1NH20IS090 | Muhammad Shareef | | |
| 47 | 12 | 12 | 1NH20IS078 | Lokesh Prasad | Harmony in Wild | Ms. Karthiyayini J |
| 48 | | | 1NH20IS077 | Lisha Ranganath | Automated Navigation System for | |
| 49 | | | 1NH20IS079 | MK Swathi Menon | Job Portal-A report om multilingual | |
| 50 | | | 1NH20IS125 | Radhika Ajith | Chatbots, resume builders and | |
| 51 | 13 | 13 | 1NH20IS158 | Shreeraksha P Bhat | Parsers | Ms. Shruthi |
| 52 | | | 1NH20IS013 | Amiya Anand | | |
| 53 | | | 1NH20IS024 | Hemang Bheda | | Mr. Sudhakar |
| 54 | | | 1NH20IS050 | Fathima Zehra | Real time Mock Interview Evaluation | Dabbiru/Dr.SivaramaKrishna |
| 55 | 14 | 14 | 1NH20IS196 | Angelika Sahoo | using CNN | n |
| 56 | | | 1NH20IS164 | Smruthi Suresh | | |
| 57 | | | 1NH20IS154 | Shivani R S | | |
| 58 | | | 1NH20IS149 | Sai Teja | | |
| 59 | 15 | 15 | 1NH20IS130 | Reshitha S | Stock Market Prediction | Mrs. Rama Bansidhar Dan |
| 60 | | | 1NH20IS187 | Yukthaa A Shreeniwas | | |
| 61 | | | 1NH20IS147 | Samit Mohan | | |
| 62 | | | 1NH20IS131 | Rishabh Preethan | Gesture guided interaction using | |
| 63 | 16 | 16 | 1NH20IS163 | Siddarth Singh | CNN | Mrs. Krishnaveni |
| 64 | | | 1NH20IS014 | Amogh Bharadhwaj | | |
| 65 | | | 1NH20IS096 | Niranjan J Gowda | Integrated Multi-Sensor Fire | |
| 66 | | | 1NH20IS100 | Nitin Appar | Classification and Optimal | |
| 67 | 17 | 17 | 1NH20IS097 | Nisham Ahamed | Extinguishment Analysis | Mr. B Kiran Kumar/Ms.Shalini |
| 68 | | | 1NH20IS055 | Harish Kumar s | | |
| 69 | | | 1NH21IS403 | Kiran k b | Next Gen Vehicle Safety:Accident | |
| 70 | | | 1NH21IS404 | Mallamma h | Monitoring & tracking services using | |
| 71 | 18 | 19 | 1NH21IS405 | Maria Immaculate s | IOT | Ms. Bibiana Jeniffer |
| 72 | | | 1NH20IS043 | Dharmik Shetty | | |
| 73 | | | 1NH20IS132 | Rishikesh Panicker | | |
| 74 | | | 1NH20IS138 | Rovin James | | |
| 75 | 19 | 20 | 1NH20IS166 | Sneha S | Shoot! I Smoke | Ms. Neha Jadav |
| 76 | | | 1NH20IS183 | Vidushi Shrivastava | | |
| 77 | | | 1NH20IS171 | Sukriti Sneha | | |
| 78 | | | 1NH20IS057 | Harshita Mahapatra | | |
| 79 | 20 | 22 | 1NH20IS157 | Shraddha C K | Greenhouse Monitoring System | Ms. Subhi Srivastava |
| 80 | | | 1NH20IS085 | Manya Adhikari | | |
| 81 | | | 1NH20IS084 | Manoj S | Hepatitis detection : Leveraging | |
| 82 | | | 1NH20IS102 | P Jayaveer | Logistic Regression,SVM and | |
| 83 | 21 | 23 | 1NH20IS074 | Khushboo | decision tree for early detection | Ms.Sriharshini Devi Kaipa |
| 84 | | | 1NH20IS135 | Rohit Raj | | |
| 85 | | | 1NH20IS192 | Anish Prasad Gupta | | |
| 86 | | | 1NH20IS199 | Chayan Paikara | Engine Locking System for | |
| 87 | 22 | 24 | 1NH20IS177 | Tanusha P Hiredesai | Preventing Drunken Drinvers | Ms. Archana Das |
| 88 | | | 1NH20IS061 | Hemashree R | | |
| 89 | | | 1NH20IS012 | Akshitha R | | |
| 90 | | | 1NH19IS164 | Subhajit Dhara | | |
| 91 | 23 | 25 | 1NH21IS414 | Shraddha H.kamath | Wildlife safety software using IOT | Ms. Archana Das |
| 92 | | | 1NH20IS178 | Tarun Naik | | |
| 93 | | | 1NH20IS180 | Tejas N | | |
| 94 | | | 1NH20IS189 | Yuvaraj NP | | |
| 95 | 24 | 26 | 1NH20IS198 | Suhas N Reddy | Smart Agri Irrigation Using IOT | Ms.Sriharshini Devi Kaipa |
| 96 | | | 1NH20IS011 | Akshith Krishnan | | |
| 97 | | | 1NH20IS018 | Aravindha HB | Insight Stream: A real time | |
| 98 | | | 1NH20IS020 | Aslam Asgar Khan | perspective on Classroom | |
| 99 | 25 | 27 | 1NH20IS005 | Abdul Manan | Environment | Ms. Subhi Srivastava |
| 100 | | | 1NH20IS001 | A NAVEEN | | |
| 101 | | | 1NH20IS035 | CHETHAN A S | | |
| 102 | | | 1NH20IS062 | HEMSAGAR N M | | |
| 103 | 26 | 28 | 1NH20IS063 | HRITHIK U | Skill- Quest: A Comprehensive Systen | Dr Anandhi R J |
| 104 | | | 1NH20IS072 | Keerthana S | | |

| | | | USN | Name | Project Title | Guide |
|---|---|---|---|---|---|---|
| 105 | | | 1NH20IS091 | Jayapriya | | |
| 106 | | | 1NH20IS095 | Nikhitha P | | |
| 107 | 27 | 29 | 1NH20IS099 | Nithya Santhoshini | Lost-O-Found : Dementia Care | Ms. Neha Jadav |
| 108 | | | 1NH20IS060 | Hasan Arshad | | |
| 109 | | | 1NH20IS056 | Harsh Mehra | | |
| 110 | | | 1NH20IS197 | Sayantan Pakrey | IOT based Medical Accessor and | |
| 111 | 28 | 30 | 1NH19IS221 | Siddhant Sinha | Predictor for healthcare solutions. | Ms. Bibiana Jeniffer |
| 112 | | | 1NH20IS106 | Divya | | |
| 113 | | | 1NH20IS165 | Sneha Paul | | |
| 114 | | | 1NH20IS144 | Sai Prashanth | Multy-Sensory Device for Distance | |
| 115 | 29 | 31 | 1NH20IS111 | Pragya | Measurement and Object Detection | Ms. Batta Saranya/Ms.Neetu |
| 116 | | | 1NH20IS137 | Roshini Sreekumar | | |
| 117 | | | 1NH20IS045 | Disha S | | |
| 118 | | | 1NH20IS143 | Sahana T | Forest Intrusion Detection and Anti- | |
| 119 | 30 | 32 | 1NH21IS412 | Priyanka J | Poaching Alarm System | Mr. B Kiran Kumar/Ms.Neetu |
| 120 | | | 1NH20IS076 | Kusum V | | |
| 121 | | | 1NH20IS075 | Kondapanalli Vyshnavi | | |
| 122 | | | 1NH20IS064 | Inchara K | Chronic Obstructive Pulmonary | |
| 123 | 31 | 33 | 1NH17IS086 | Sabah Fatima | Disease Prediction System | Mrs. Krishnaveni |
| 124 | | | 1NH20IS023 | Bhargav M | | |
| 125 | | | 1NH20IS054 | Hari Krishna m | Detection of Poverty using Deep | |
| 126 | 32 | 34 | 1NH20IS034 | C Sai Sourabh | Learning | Mrs. Rama Bansidhar Dan |
| 127 | | | 1NH20IS007 | Adithya D | Online Analysis of Ingredients Safety: | |
| 128 | | | 1NH20IS044 | Dhyan D Kedilaya | Leveraging OCR and Machine | |
| 129 | | | 1NH20IS161 | Shreyas Gondkar | Learning for Enhanced Consumer | |
| 130 | 33 | 35 | 1NH20IS168 | Sourabh Halhalli | Product Safety | Dr Vandana |
| 131 | | | 1NH20IS002 | Aakash | | |
| 132 | | | 1NH20IS033 | C Vishnu Vardhan reddy | Micro Organism Image Recognition | |
| 133 | | | 1NH20IS028 | Saran Rakesh | And Disease Prediction Based On | |
| 134 | 34 | 36 | 1NH20IS067 | K ABHISHEK REDDY | Deep Learning | Mr. Sudhakar Dabbiru/Ms.Shali |
| 135 | | | 1NH20IS133 | Ritika Patil | | |
| 136 | | | 1NH20IS073 | Khooshi Dutta | | |
| 137 | | | 1NH20IS121 | Presha Stephen | | |
| 138 | 35 | 37 | 1NH20IS141 | S Shivani | Water Quality Monitoring System | Ms. Shruthi |
| 139 | | | 1NH20IS065 | Jashwanth D S | Percepti Alarm:" A Beacon of Safety | |
| 140 | | | 1NH20IS066 | Jayam Surendra Anil | and Autonomy Leveraging OCR and | |
| 141 | 36 | 38 | 1NH20IS068 | K L Tejas | Machine Learning" | Ms. Priya |
| 142 | | | 1NH20IS136 | Rohith Rajendran | | |
| 143 | | | 1NH20IS122 | Punith C | | |
| 144 | | | 1NH20IS114 | Praneeth Sanapala | Deep Learning Agent for Traffic | |
| 145 | 37 | 39 | 1NH20IS127 | Rahul G | Management | Ms. T N Chitti |
| 146 | | | 1NH20IS110 | P Bhargav Reddy | | |
| 147 | | | 1NH20IS112 | Prajwal A | | |
| 148 | | | 1NH20IS119 | Praveen M | URBANFLOW- Traffic Management | |
| 149 | 38 | 40 | 1NH20IS126 | Raghavendra S | System using IOT | Ms. Karthiyayini J |
| 150 | | | 1NH20IS082 | Parnika M | | |
| 151 | | | 1NH20IS193 | K Harinath Reddy | | |
| 152 | | | 1NH20IS173 | Suraj Antony Raj A | | |
| 153 | 39 | 41 | 1NH20IS176 | T Pranay | Cattle Desease Prediction using ML | Mrs. Divya K V |
| 154 | | | 1NH21IS402 | Ameer Nadaf | | |
| 155 | | | 1NH21IS406 | MohammadSayeed mulla | | |
| 156 | | | 1NH21IS413 | Ramesh N | Dam Monotoring and Management | |
| 157 | 40 | 42 | 1NH21IS407 | Nahim | Systems using IoT | Dr. Divya Kumari |
| 158 | | | 1NH20IS089 | Muhammad Hisham Gundag | | |
| 159 | | 44 | 1NH20IS115 | Praneeth V | SAFEZONE- Construction Safety Man | |
| 160 | | | 1NH20IS087 | Mohammed Yousuf | | |
| 161 | 41 | | 1NH20IS156 | Shourya Biswas | | Dr.Kalaivani |
| 162 | | | 1NH20IS140 | Ruheen Naaz | | |
| 163 | | 45 | 1NH20IS167 | Sonika C V | Unveiling the Future of Financial | Dr. Arvind S Kapse |

| | | | | | | |
|---|---|---|---|---|---|---|
| 164 | | 45 | 1NH20IS172 | Sukrutha M Kumar | Security | Dr. Arvind S Kapse |
| 165 | 42 | | 1NH20IS175 | T Namratha | | |
| 166 | | | 1NH20IS101 | Nitish Veni | | |
| 167 | | | 1NH20IS116 | Pranith Kumar M | | |
| 168 | | | 1NH20IS083 | Manoj H | Votereum - Blockchain based Secure Voting System | |
| 169 | 43 | 47 | 1NH20IS123 | Hrishikesh | | Dr. Divya Kumari |
| 170 | | | 1NH20IS139 | Rudwaj SK | MastroWorkforce-Securing Workforce Efficiency with HCM Excellence | |
| 171 | | | 1NH20IS155 | Shivaraj CM | | |
| 172 | | | 1NH20IS146 | Sakshith C Billava | | |
| 173 | 44 | 48 | 1NH20IS169 | Sudarshan B | | Dr. Rajlakshmi Ghatkamble |
| 174 | | | 1NH20IS107 | Panduranga Javalageri | | |
| 175 | | | 1NH20IS191 | Swati Ravishyam | | |
| 176 | 45 | 49 | 1NH20IS179 | Tejas Mondeeri S | Stanford Ribonanza Folding | Dr.Kalaivani |
| 177 | | | 1NH20IS086 | Adil Anwar Khan | | |
| 178 | | | 1NH20IS200 | Abinav Kumar | Cardiovascular Disease Prediction Using Machine Learning | |
| 179 | 46 | 50 | 1NH20IS185 | Vishal Kumar | | Dr. Arvind S Kapse |
| 180 | | | 1NH20IS038 | D A RITESH | | |
| 181 | | | 1NH20IS037 | CHIRAG M | | |
| 182 | | | 1NH20IS039 | D SHIVKUMAR GOUD | | |
| 183 | 47 | 51 | 1NH20IS105 | P NITHIN | Credit Card Score Prediction | Dr. K. Saravanan |
| 184 | | | 1NH20IS128 | Ramgiri T R | | |
| 185 | | | 1NH21S411 | Pramod G S | | |
| 186 | 48 | 52 | 1NH21IS417 | Vikas H S | Smart Gas Leakage Detector Bot | Ms. T N Chitti |
| 187 | | | 1NH20IS142 | SACHIN MENGJI | | |
| 188 | | | 1NH20IS150 | SATYAJEET KUMAR | | |
| 189 | | | 1NH20IS152 | SHASHI KANT KUMAR S | | |
| 190 | 49 | 53 | 1NH20IS160 | SHREYAS N | YUJ : Solace Amidst Distress | Ms.Karthiyayini J |
| 191 | | | 1NH20IS081 | Mamtha | | |
| 192 | | | 1NH20IS030 | Chandana yuktha | Chemcheck- " An IOT based Device for Chemical Detection on Fruits and Vegetables" | |
| 193 | | | 1NH20IS058 | Harshitha M | | Ms. Batta Saranya/Dr. Vandana CP |
| 194 | 50 | 54 | 1NH20IS008 | Aishwarya D | | |
| 195 | | | 1NH20IS181 | Sravan Kumar | Visionary Diagnosis: Exploring Cardiovascular Links in Retinal Imagery. | |
| 196 | | | 1NH20IS194 | Jaffer Sadiq | | |
| 197 | 51 | 57 | 1NH20IS046 | Diwakar R V | | Ms.RamaDan |
| 198 | | | 1NH20IS029 | VyshnaviReddy | | |
| 199 | | | 1NH20IS032 | Raghu C | | |
| 200 | 52 | 58 | 1NH20IS103 | Mani kanta kiran .P | PRO SHIELD Protect | Ms.Krishnaveni |
| 201 | | | 1NH20IS051 | P Gagan Rao | | |
| 202 | | | 1NH20IS006 | Abhishek E | Cancer care- Predicting likelihood of Cancer | |
| 203 | 53 | 59 | 1NH20IS182 | Varshitha S | | Ms. Priya |

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# Department of Information Science and Enginerring
## Interdisciplinary Team List -2023-24

| Sl. No. | Team # | USN | NAME | BRANCH | Project Title | Guide from parent department | Coguide from other department |
|---|---|---|---|---|---|---|---|
| 1 | . 50 B | 1NH20IS113 | Pranati Parashar Shetty | ISE | Patient Centric Breast Tumor Analysis: DenseNet 201 Based Prediction and Personalized Recommendations | Dr Arvind S Kapse | M Thanga Subha Devi |
| | | 1NH20CS020 | Akhila GS | CSE | | | |
| | | 1NH20CS027 | Ananya | CSE | | | |
| | | INH20CS030 | Ankitha S | CSE | | | |
| 2 | 43 A | 1NH21IS401 | Ajay B J | ISE | Kannada Manuscript Digitization throgh OCR and ML | Dr Rajlakshmi G | Ms Asha Rani Borah |
| | | 1NH21IS416 | Suhas D R | ISE | | | |
| | | 1NH20CS006 | Abhilash Vijapur | CSE | | | |
| | | INH20CS042 | B Mahesh Kumar | CSE | | | |
| 3 | 43B | 1NH20CS144 | NISCHITH | CSE | COGNILEARN-Empowering Minds ,Powered By AI | Ms. Asha Rani Borah | Dr. Vandana |
| | | 1NH20CS193 | SAKSHAM | CSE | | | |
| | | 1NH20IS022 | Bharath B | ISE | | | |
| 4 | 43C | 1NH20CS124 | MANIK | CSE | Realtime Monitoring and Health Management of Aquatlc Life with Aquatracker | Ms. Asha Rani Borah | Dr Rajlakshmi G |
| | | 1NH20CS216 | SUDEEP M ARASHINGODI | CSE | | | |
| | | 1NH20IS159 | Shreya Archarya | ISE | | | |
| 5 | 55 A | 1NH20CS037 | Arshlan Hassan | CSE | AuthentiCheck: Spotting Phony Profiles | Mrs Shruthi GR | Ms Chempavathy |
| | | 1NH20CS085 | Harshit Tyagi | CSE | | | |
| | | 1NH20CS084 | Harshit Singh | CSE | | | |
| | | 1NH20IS153 | Shivang Seth | ISE | | | |
| 6 | 55 C | 1NH20CS001 | Aashutosh Gupta | CSE | Speech Enhanced Intelligent Search Using Deep Learning | Mrs Shruthi GR | Ms Florance G |
| | | 1NH20CS009 | Abhiskek V | CSE | | | |
| | | 1NH20CS025 | Amogh Patil | CSE | | | |
| | | 1NH20IS162 | Siddharth Bokka | ISE | | | |
| 7 | 21 A | 1NH20IS190 | Harshith | ISE | Tuberculosis and pneumoia detection using chest X-ray | Dr S Sivaramakrishnan | Dr.C.R.Rathish |
| | | 1NH21IS415 | Shridhar gavadi | ISE | | | |
| | | 1NH20CE034 | R Manasa | CE | | | |
| | | 1NH20CE031 | M Pavana | CE | | | |
| 8 | 21 B | 1NH20CE049 | Sivani reddy k | CE | Detecting Dangerous Pests in Farms using Deep Learning | Dr.C.R.Rathish | Dr S Sivaramakrishnan |
| | | 1NH20CE012 | E Vanaja | CE | | | |
| | | 1NH20IS188 | Yuvaraj K M | ISE | | | |
| | | INH201S170 | Sudharshan R | ISE | | | |
| 9 | 56 | 1NH20IS009 | Akash Sen | ISE | Fitness Tracker | Mr Sudhakar Dabbiru/Dr. Saravanan | Ms. S Pramila |
| | | 1NH20IS108 | Partha Sen | ISE | | | |
| | | 1NH20IS201 | Chaitanya bhardwaj | ISE | | | |
| | | 1NH20CE066 | Sandeep Hukum Danai | CE | | | |

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## PROJECT REPORT ON

# "IOT BASED FACE RECOGNITION ROBOT"

Submitted in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

**BY**

Manoj P      -1NH20IS104

Pranshu H      -1NH20IS117

Naveen Gowda B -1NH21IS408

T S Palgun Jain    -1NH21IS410

*Under the guidance of*
**Dr. K Saravanan**
**Professor**

**Academic year:2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## CERTIFICATE

It is hereby certified that the Project Phase-I work entitled "**IOT BASED FACE RECOGNITION ROBOT**" is a bonafide work carried out by **Manoj P (1NH20IS104)** , **Pranshu H M (1NH20IS117)** , **Naveen Gowda B (1NH21IS408)** and **T S Palgun Jain(1NH21IS410)** in partial fulfilment for the award of **Bachelor of Engineering** in **INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Dr.K Saravanan)

Signature of HOD

(Dr. Vandana C P)

## SEE Viva

| Name of Examiner | Signature with date |
|---|---|
| 1. Dr. S Sivaramlah | |
| 2. Dineshkumar.M | |

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "IOT BASED FACE RECOGNITION ROBOT", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name:Manoj P
USN: 1NH20IS104

Name:Pranshu H M
USN: 1NH20IS117

Name: Naveen Gowda B
USN: 1NH21IS408

Name:T S Palgun Jain
USN: 1NH21IS410

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT REPORT ON

## "Therapeutic System using Machine Learning"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Ashutosh
Biswal**

**1NH20IS019**

**Aakash
Ranjan**

**1NH20IS003**

**Aniket Dajee
Metkari**

**1NH20IS015**

**Nistha
Srivastava**

**1NH20IS098**

*Under the guidance of*

**Dr. Arvind S. Kapse**

Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

**NEW HORIZON**
**COLLEGE OF ENGINEERING**
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## *CERTIFICATE*

Certified that the project work entitled "**Therapeutic System using Machine Learning**", carried out by **Mr. Ashutosh Biswal (1NH20IS019), Mr. Aakash Ranjan (1NH20IS003), Mr. Aniket Dajee Metkari (1NH20IS015) and Ms. Nishtha Srivastava (1NH20IS098)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Dr. Arvind S. Kapse**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Dr SSivaramakrish

2. Dineshkumar, M

Signature with Date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
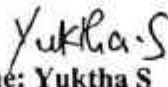
## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Therapeutic System using Machine Learning" and is uniquely prepared by us after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Ashutosh Biswal
USN: 1NH20IS019

Name: Aakash Ranjan
USN: 1NH20IS003

Name: Nistha Srivastava
USN: 1NH20IS098

Name: Aniket Dajee Metkari
USN: 1NH20IS015

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

**Jnana Sangama, Belagavi, Karnataka - 590014**



## A PROJECT REPORT
## ON

**"Agripulse - Revolutioning Agriculture through Wireless Sensor Networks and Machine Learning"**

**(SPONSORED BY KSCST)**



Project report submitted in the partial fulfillment of the requirements for the award of the degree of

## BACHELOR OF ENGINEERING IN INFORMATION SCIENCE AND ENGINEERING

Submitted by

| | |
|---|---|
| **Nikhil Kamate** | **(1NH20IS094)** |
| **Pinaki Sankar Matruprasad** | **(1NH20IS109)** |
| **Om Gawade** | **(1NH21IS409)** |
| **Vamsi Krishna Sai** | **(1NH20IS088)** |

Under the guidance of

**Dr. Kalavani D**
Associate Professor



## NEW HORIZON COLLEGE OF ENGINEERING
## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
Bangalore-560103
**2023-24**

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## *CERTIFICATE*

Certified that the project phase-2 work entitled **"Agripulse"**, carried out by **Mr.Nikhil Kamate (1NH20IS094)**, **Mr.Pinaki Sankar Matruprasad (1NH20IS109)**, **Mr.Om Gawade (1NH21IS409)** and **Mr.Vamsi Krishna Sai (1NH20IS088)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Dr. Kalavani D**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Dr S Sivarone krinshme NHCE

2. Dineshkumar. M

Signature with Date

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Agripulse - Revolutioning Agriculture through Wireless Sensor Networks and Machine Learning", and is uniquely prepared by us after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Nikhil Kamate

Name: Pinaki Sankar Matruprasad

Name: Vamsi Krishna Sai

Name: Om Gawade

USN: 1NH20IS094

USN: 1NH20IS109

USN: 1NH20IS088

USN: 1NH21IS409

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE -2 REPORT ON

## "Arduino-Based Air Quality Monitoring Robot with ML Analysis"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**Santosh Reddy**

**1NH20IS148**

**Yuktha S**

**1NH20IS186**

**Darshini R**

**1NH20IS040**

**Monisha R**

**1NH20IS124**

*Under the guidance of*
**Dr. S Sivaramakrishnan**

Associate Professor, Dept. of ISE, NHCE

## ACADEMIC YEAR: 2022-23

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-2 work entitled "Arduino-Based Air Quality Monitoring Robot with ML Analysis", carried out by **Mr. Santosh Reddy (1NH20IS148), Ms. Yuktha S(1NH20IS186)** and **Ms. Monisha (1NH20IS124), Ms. Darshini R(1NH20IS040)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Mr. S Sivaramakrishnan**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Dr S Sivaramakrishnan

2. Dnelikumar.M

Signature with Date

# NEW HORIZON
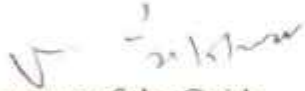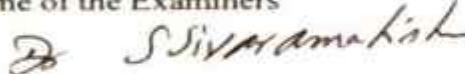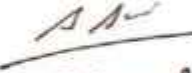## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Arduino-Based Air Quality Monitoring Robot with ML Analysis", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Santosh Reddy

USN: 1NH20IS148

Name: Yuktha S

USN: 1NH20IS186

Name: Darshini R

USN: 1NH20IS040

Name: Monisha

USN: 1NH20IS124

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE -2
## REPORT ON

## "Non Breachable Home Security System Using Ultrasonic Sensor"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**Bhoomika B**

**1NH20IS025**

**Preethi K M**

**1NH20IS120**

**Poovizhi R**

**1NH20IS195**

**Madhushree P M**

**1NH20IS203**

*Under the guidance of*

**Dr. Rajlakshmi Ghatkamble**

Associate Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-2 work entitled **"Non Breachable Home Security System Using Ultrasonic sensor"**, carried out by **Ms. Bhoomika B (1NH20IS025), Ms. Preethi (1NH20IS120)** and **Ms. Poovizhi R (1NH20IS195), Ms. Madhushree P M(1NH20IS203)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide Name
**Dr. Rajlakshmi Ghatkamble**

Signature of the HOD
**Vandana C P**

**External Viva**

Name of the Examiners

1. Dr S Sivarama krish

2. Dineshkumar M

Signature with Date

**NEW HORIZON**
**COLLEGE OF ENGINEERING**
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Non Breachable Home Security System Using Ultrsonic Sensor", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Bhoomika B
USN: 1NH20IS025

Name: Poovizhi R
USN: 1NH20IS195

Name: Madhushree P M
USN: 1NH20IS203

Name: Preethi K
USN: 1NH20IS120

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -2 REPORT ON

### "Innovation for Inclusive Living – Sign Language Translation"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Aastha Priya**
**1NH20IS004**

**Abutalib H K**
**1NH21IS400**

**Syed Abul**
**Nashaath**
**1NH20IS174**

**Shamael**
**Hashmi**
**1NH20IS151**

### *Under the guidance of*

**Dr Vandana C P**

Associate Professor & HOD, Dept. of ISE, NHCE

### ACADEMIC YEAR: 2023-24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-2 work entitled **"Innovation for Inclusive Living – Sign Language Translation"**, carried out by **Ms. Aastha Priya**(1NH20IS004), **Mr. Shamael Hashmi** (1NH20IS151) , **Mr. Syed Abul Nashaath** (1NH20IS174) and **Mr. Abutalib H K** (1NH21IS400), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Dr. Vandana C P**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. S Sivaramakrish

2. Dineshkumar. M

Signature with Date

29/5/2024

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Innovation for Inclusive Living- Sign Language Translation", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Aastha Priya
USN : 1NH20IS004

Name: Abutalib H K
USN : 1NH20IS151

Name: Shamael Hashmi
USN : 1NH20IS151

Name: Syed Abul Nashaat
USN : 1NH20IS174

**NEW HORIZON**
**COLLEGE OF ENGINEERING**
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE - II REPORT ON

## "Piracy Obliterator"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Pranav Srinivasan K N**

**1NH20IS069**

**Prathiksha R K**

**1NH20IS118**

**Rayid Ahmed**

**1NH20IS129**

*Under the guidance of*

**Dr. Anandhi R J**

Professor and Dean of Academics, NHCE

**ACADEMIC YEAR: 2023-24**

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the Project Phase-II work entitled **"Piracy Obliterator"**, carried out by **Mr. Pranav Srinivasan K N** (1NH20IS069), **Ms. Prathiksha R K** (1NH20IS118) and **Mr. Rayid Ahmed** (1NH20IS129), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Dr. Anandhi R J**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. 

2. 

Signature with Date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "Piracy Obliterator", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Pranav Srinivasan K N     Name: Prathiksha R K     Name: Rayid Ahmed

USN: 1NH20IS069     USN: 1NH20IS118     USN: 1NH20IS129

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with A Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -2 REPORT ON

### "FlexOS – The OS of the Future"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By
**Chinmaya C B**

**1NH20IS036**

**Kamboji Akhliesh**

**1NH20IS070**

**Karthik E**

**1NH20IS071**

**Saket Kumar**

**1NH20IS145**

*Under the guidance of*

**Dr. Divya Kumari**

Associate Professor, Dept of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the Project Phase-2 work entitled **"FlexOS-The OS of the Future"**, carried out by **Mr. Chinmaya C B** (1NH20IS036), **Mr. Kamboji Akhliesh** (1NH20IS070), **Mr. Karthik E** (1NH20IS071) and **Mr. Saket Kumar** (1NH20IS145), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.
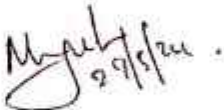
23 05 2024

Name & Signature of the Guide
**Dr. Divya Kumari**

25/5/2024
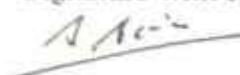
Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

Signature with Date

1.  Dr SSivaramakrish

2.  Dineshkumar·m

29/5/2024

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the Project Phase-2 report and presented report of project titled "FlexOS – The OS of the Future", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Chinmaya C B

USN: 1NH20IS036

Name: Kamboji Akhliesh

USN: 1NH20IS070

Name: Karthik E

USN: 1NH20IS071

Name: Saket Kumar

USN: 1NH20IS145

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -2 REPORT ON

### "Smart Aquarium"

*Submitted in the partial fulfillment of the requirements in the 8ᵗʰ semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

Akash S

1NH20IS010

Aruna K

1NH20IS017

Ellury Sai Vamshi Krishna

1NH20IS048

Harshitha N M

1NH20IS059

*Under the guidance of*

Mrs. Divya K V

Sr. Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-2 work entitled **"Smart Aquarium"**, carried out by **Mr. Akash S (1NH20IS010)**, **Ms. Aruna K (1NH20IS017)** and **Mr. Ellury Sai Vamshi Krishna (1NH20IS048)**, **Ms. Harshitha N M (1NH20IS059)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirement in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Mrs. Divya K V**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Krishnaveni.A

2. Manjula.M

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Smart Aquarium", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Akash S

USN: 1NH20IS010

Name: Aruna K

USN: 1NH20IS017

Name: E Sai Vamshi Krishna

USN: 1NH20IS048

Name: Harshitha N M

USN: 1NH20IS059

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT REPORT PHASE-II
### ON

### "Mitigating Online Fraud: Understanding phishing threats and Prevention strategies using Machine Learning"

*Submitted in the partial fulfillment of the requirements in the 8ᵗʰ semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Arnav Pandey**

**1NH20IS016**

**Bindu K**

**1NH20IS026**

**Deepthi BS**

**1NH20IS041**

**Hardik Rusiya**

**1NH20IS053**

*Under the guidance of*
**Ms. T N Chitti**
Senior Assistant Professor

Department of ISE, NHCE

### ACADEMIC YEAR: 2023-24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled **"Mitigating Online Fraud: Understanding phishing threats and Prevention strategies using Machine Learning"**, carried out by **Arnav Pandey (1NH20IS016), Bindu K(1NH20IS026), Deepthi BS(1NH20IS041)** and **Hardik Rusiya (1NH20IS053)**,bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. T N Chitti**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. *S Sivarama krish*
2. Dineshkumar.M

Signature with Date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled **"Mitigating Online Fraud: Understanding phishing threats and Prevention strategies using Machine Learning"**, and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.
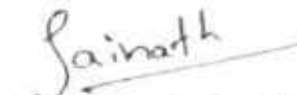
**Signature of the Students**

**Name: Arnav Pandey**

USN: 1NH20IS016

**Name: Bindu K**

USN: 1NH20IS026

**Name: Deepthi B S**

USN: 1NH20IS041

**Name: Hardik Rusiya**

USN: 1NH20IS053

**NEW HORIZON**
**COLLEGE OF ENGINEERING**
Accredited by NAAC with A Grade  Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE -2 REPORT ON

## "IoTrash: Intelligent Waste Sorting with Machine Learning Technology"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By
**B V K Chaitanya**
**1NH20IS021**
**Devara Maneesh Reddy**
**1NH20IS042**
**D V R Sugnan**
**1NH20IS047**
**G H Sainath Reddy**
**1NH20IS052**

## *Under the guidance of*

**Mrs.Priya N**

Sr.Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

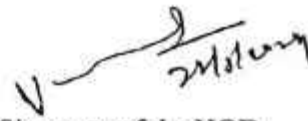## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-2 work entitled "**IoTrash: Intelligent Waste Sorting with Machine Learning Technology**", carried out by **Mr. B V K Chaitanya**(1NH20IS021), **Mr. Devara Maneesh Reddy** (1NH20IS042), **Mr. D V R Sugnan** (1NH20IS047) and **Mr. G H Sainath Reddy** (1NH20IS052), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Mrs. Priya N**

Name & Signature of the HOD
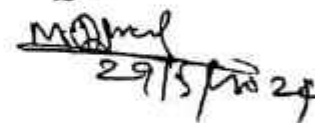**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1 Dr SSivaranjan

2 D'Maheshkumoss. M

Signature with Date

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "IoTrash Intelligent Waste Sorting with Machine Learning Technology", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree

**Signature of the Students**

| | | | |
|---|---|---|---|
| Name: B V K Chaitanya | Name: Devara Maneesh Reddy | Name: D V R Sugnan | Name: G H Sainath Reddy |
| USN: 1NH20IS021 | USN: 1NH20IS042 | USN: 1NH20IS047 | USN: 1NH20IS052 |

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT REPORT ON

### "Harmony in Wild"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**M MOHAMED KHALID**

**1NH20IS080**

**ROHAN NAGARKATTE**

**1NH20IS134**

**MUHAMMED SHAREEF**

**1NH20IS090**

**LOKESH PRASAD**

**1NH20IS078**

*Under the guidance of*

**MS. J KARTHIYAYINI**

Senior Assistant Professor,

Dept. of ISE, NHCE

### ACADEMIC YEAR: 2023-24

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## *CERTIFICATE*

Certified that the project work entitled **"Harmony in Wild"**, carried out by **Mr. M Mohamed Khalid (1NH20IS080)**, **Mr. Rohan Nagarkatte (1NH20IS134)**, **Mr. Muhammed Shareef (1NH20IS090)** and **Mr. Lokesh Prasad (1NH20IS078)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the project phase-2 work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. J Karthiyayini**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. S Sivarama Krish

2. Dineshkumar. M

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Harmony in Wild", and is uniquely prepared by us after the completion of the project phase-2 work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

| | | | |
|---|---|---|---|
| Name: M Mohamed Khalid | Name: Rohan Nagarkatte | Name: Muhammed Shareef | Name: Lokesh Prasad |
| USN: 1NH20IS080 | USN:1NH20IS134 | USN:1NH20IS090 | USN:1NH20IS078 |

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## A MAJOR PROJECT REPORT ON

"Automated Navigation systems for job portals- A report on multilingual

chatbots, resume builders and parsers"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

**BACHELOR OF ENGINEERING IN**
**INFORMATION SCIENCE AND ENGINEERING**
**COURSE NAME: PROJECT PHASE II**
**COURSE CODE: 20ISE83A**

By

**LISHA RANGANTH**
1NH20IS077
**SHREERAKSHA P BHAT**
1NH20IS158
**RADHIKA AJITH**
1NH20IS125
**SWATHI MENON**
1NH20IS079

## Under the guidance of

Mrs. Shruthi G R
Sr. Assistant Professor, Dept ISE ,NHCE

**NEW HORIZON**
**COLLEGE OF ENGINEERING**
Autonomous College, Affiliated to VTU | Approved by AICTE New Delhi & UGC
Accredited by NAAC with 'A' Grade & Accredited by NBA

# CERTIFICATE

Certified that the project work entitled "Automated Navigation System for job portals- A survey on multilingual chatbots , resume builders and resume parsers" carried out by Radhika Ajith , Lisha Ranganath, Shreeraksha P Bhat and Swathi Menon bearing USN 1NH20IS125,1NH20IS077,1NH20IS158 and 1NH20IS079 respectively, bonafide students of VIII semesters in partial fulfillment for the award of Bachelor of Engineering in Information Science & Engineering of New Horizon College of Engineering, an autonomous institute affiliated to the Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated. The project report has been approved as it satisfies the academic requirements in respect of      Project work prescribed for the said Degree.

**Name & Signature of Guide**

Mrs. Shruthi G R

**Name & Signature of HOD**

Dr.Vandana C P

Examiners:

Name

Signature

1. Krishnaveni.A

2. Manjula M

# NEW HORIZON
## COLLEGE OF ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented the report of project titled "automated navigation in job portals", and is uniquely prepared by us after the completion of the project work. We also confirm that the report sis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**RADHIKA AJITH**
1NH20IS125

**LISHA RANGANATH**
1NH20IS077

**SHREERAKSHA P BHAT**
1NH20IS158

**SWATHI MENON**
1NH20IS079

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**PROJECT REPORT ON**

**"Real Time Mock Interview Evaluation using CNN"**

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

**BACHELOR OF ENGINEERING**
**IN**
**INFORMATION SCIENCE AND ENGINEERING**

By

**Amiya Anand**

**1NH20IS013**

**Hemang Bheda**

**1NH20IS024**

**Fatima Zehra Minni**

**1NH20IS050**

**Angelika Sahoo**

**1NH20IS196**

<u>*Under the guidance of*</u>

**Dr. Sivaramakrishnan S**

Associate Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2022-23**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled **"Real Time Mock Interview Evaluation using CNN"**, carried out by **Ms. Amiya Anand** (1NH20IS013), **Mr. Hemang Bheda** (1NH20IS024), **Ms. Fatima Zehra Minni** (1NH20IS050) and **Ms. Angelika Sahoo** (1NH20IS196), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisvesvarayaTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Dr. Sivaramakrishnan S**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Ms. Neha Jadhav
2. Prof. Nikhil, REVA University

Signature with Date

Neha 29/5/24
29/05/24

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Real Time Mock Interview Evaluation using CNN", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Amiya Anand       Name: Hemang Bheda       Name: Fatima Zehra        Name: Angelika Sahoo
                                                                       Minni
USN: 1NH20IS013         USN: 1NH20IS024          USN: 1NH20IS050           USN:1NH20IS196

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -2 REPORT ON

### "Stock Market Prediction"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Reshitha S**

**1NH20IS130**

**Smruthi Suresh**

**1NH20IS164**

**Shivani R S**

**1NH20IS154**

**Sai Teja**

**1NH20IS149**

*Under the guidance of*

**Mrs. Rama Banisdhar Dan**

Assistant Professor, Dept. of ISE, NHCE

### ACADEMIC YEAR: 2023-24

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## *CERTIFICATE*

Certified that the project phase-2 work entitled **"Stock Market Prediction "**, carried out by **Ms. Reshitha S** (1NH20IS130), **Ms. Smruthi Suresh** (1NH20IS164) and **Ms. Shivani R S** (1NH20IS154),**Ms. Sai Teja** (1NH20IS149) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
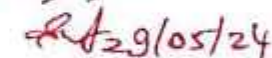**Mrs . Rama Banisdhar Dan**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

Signature with Date

1. Ms. Neha Jadhav, NHCE

2. Proof.Nikhil, REVA University

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Stock Market Prediction", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Reshitha S

USN: 1NH20IS130

Name: Smruthi S

USN: 1NH20IS164

Name: Shivani R S

USN: 1NH20IS154

Name: Sai Teja

USN:1NH20IS149

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE -II REPORT ON

## "Gesture Guided Interaction using CNN"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**Siddharth Singh**

**1NH20IS163**

**Yukthaa A Shreeniwas**

**1NH20IS187**

**Samit Mohan**

**1NH20IS147**

**Rishabh Preethan**

**1NH20IS131**

*Under the guidance of*

**Mrs. Krishnaveni A**

**Assistant Professor**

Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-2 work entitled **"Gesture Guided Interaction using CNN"**, carried out by **Mr. Siddharth Singh (1NH20IS163)**, **Mr. Samit Mohan (1NH20IS147)** and **Mr. Rishabh Preethan (1NH20IS131)**, **Ms. Yukthaa A Shreeniwas (1NH20IS187)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswarayaTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Mrs. Krishnaveni A**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Ms. Neha Jadhav
2. Prof. Nikhil, REVA University

Signature with Date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Gesture Guided Interaction Using CNN", and is uniquely prepared by us after the completion of the project work. We also confirm that the report isonly prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Siddharth Singh

USN: 1NH20IS163

Name: Samit Mohan

USN: 1NH20IS147

Name: Rishabh Preethan

USN: 1NH20IS131

Name: Yukthaa A Shreeniwas

USN: 1NH20IS187

## A PROJECT PHASE-II REPORT
## ON
## PROJECT TITLED

## "INTEGRATED MULTI-SENSOR FIRE CLASSIFICATION AND OPTIMAL EXTINGUISHMENT ANALYSIS"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING
### BY

AMOGH BHARADHWAJ - 1NH20IS014

NIRANJAN GOWDA – 1NH20IS096

NISHAM AHAMED – 1NH20IS097

NITIN APPAR – 1NH20IS100


*Under the guidance of*
**Ms. A. Shalini**

Senior Assistant Professor Dept of ISE, NHCE

## Academic Year: 2023-24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Project Phase II work entitled "INTEGRATED MULTI-SENSOR FIRE CLASSIFICATION AND OPTIMAL EXTINGUISHMENT ANALYSIS", carried out by **AMOGH BHARADHWAJ** (1NH20IS046), **NITIN APPAR** (1NH20IS100), **NIRANJAN GOWDA** (1NH20IS096) and **NISHAM AHAMED** (1NH20IS097), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belgaum, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Signature of Guide

(Ms. A. Shalini)

Signature of HOD

(Dr. Vandana C P)

## External Viva

Name of the Examiners

1 Ms. Neha

2 Prof. Nikhil, PES University

Signature with Date

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU  Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "INTEGRATED MULTI-SENSOR FIRE CLASSIFICATION AND OPTIMAL EXTINGUISHMENT ANALYSIS", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

*Signature of the Students*

| AMOGH BHARADHWAJ | NIRANJAN GOWDA | NISHAM AHAMED | NITIN APPAR |
|---|---|---|---|
| 1NH20IS014 | 1NH20IS096 | 1NH20IS097 | 1NH20IS100 |

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

### Jnana Sangama, Belagavi, Karnataka - 590014

## A PROJECT REPORT
## ON

### "Next-Gen Vehicle Safety: Accident Monitoring and Tracking Services using IoT"

**(SPONSORED BY KSCST)**

Project report submitted in the partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF ENGINEERING IN**
**INFORMATION SCIENCE AND ENGINEERING**

Submitted by

| | |
|---|---|
| **Harish kumar S** | **(1NH20IS055)** |
| **Kiran K B** | **(1NH20IS403)** |
| **Mallamma H** | **(1NH20IS404)** |
| **Maria Immaculate S** | **(1NH20IS405)** |

Under the guidance of
**Mrs. Bibiana Jenifer J**
Assistant Professor

**NEW HORIZON COLLEGE OF ENGINEERING**
**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**
Bangalore-560103
2023-24

NEW HORIZON
COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## *CERTIFICATE*

Certified that the project work entitled "Next-Gen Vehicle Safety :Accident Monitoring and Tracking Services using IoT", carried out by **Mr. Harish Kumar S** (1NH20IS055), **Mr. Kiran K B** (1NH21IS403),**Ms. Mallamma H** (1NH21IS404) and **Ms. Maria Immaculate S**(1NH21IS405), Bonafede students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswarayaTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Mrs. Bibiana Janifer J**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

Signature with Date

1. Ms. Neha Jadhav, NHCE

2. Prof. Nikhil, REVA University

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Next-Gen Vehicle Safety: Accident Monitoring and Tracking Services using IoT", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Harish Kumar S

USN: 1NH20IS055

Name: Kiran K B

USN: 1NH21IS403

Name: Mallamma H

USN: 1NH21IS404

Name: Maria Immaculate S

USN: 1NH21IS405

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

PROJECT PHASE -2 REPORT ON

"SHOOT I SMOKE"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

**BACHELOR OF ENGINEERING**
**IN**
**INFORMATION SCIENCE AND ENGINEERING**

By

**Rovin**
**Thomas**
**James**

**1NH20IS138**

**Dharmik N**
**Shetty**

**1NH20IS043**

**Rishikesh S**
**Panicker**

**1NH20IS132**

**Sneha**
**Sudheer K**

**1NH20IS166**

*Under the guidance of*

**Mrs. Neha Jadhav**

Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## CERTIFICATE

Certified that the project phase-2 work entitled **"Shoot I Smoke - Mapping PM 2.5 levels to the number of smoked cigarettes"**, carried out by **Mr. Rovin Thomas James** (1NH20IS138), **Mr. Dharmik N Shetty** (1NH20IS043), **Mr. Rishikesh S Panicker** (1NH20IS132) and **Ms. Sneha Sudheer K** (1NH20IS166), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. Neha Jadhav**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Ms. Neha Jadhav, NHCE
2. Poof, Nikhil, REVA University

Signature with Date

Neha J
29/5/24

29/5/24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "**Shoot I Smoke - Mapping PM 2.5 levels to the number of smoked cigarettes**", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Rovin James
USN: 1NH20IS138

Name: Dharmik Shetty
USN: 1NH20IS043

Name: Rishiskesh S P
USN: 1NH20IS132

Name: Sneha Sudheer
USN: 1NH20IS166

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

**Jnana Sangama, Belagavi, Karnataka - 590014**



## A PROJECT REPORT
### ON

"Engine Locking System for Drunken Drivers"

**(SPONSORED BY KSCST)**



Project report submitted in the partial fulfillment of the requirements for the award of the degree of

## BACHELOR OF ENGINEERING IN INFORMATION SCIENCE AND ENGINEERING

Submitted by

| | |
|---|---|
| **Anish Prasad Gupta** | **(1NH20IS192)** |
| **Tanusha P Hiredesai** | **(1NH20IS177)** |
| **Rohit Raj** | **(1NH20IS135)** |
| **Chayan Paikara** | **(1NH20IS199)** |

Under the guidance of

**Ms. Archana Das**
Assistant Professor

## NEW HORIZON COLLEGE OF ENGINEERING
## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
Bangalore-560103
2023-24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled "Engine Locking System for Drunken Drivers", carried out by **Anish Prasad Gupta** (1NH20IS192), **Tanusha P Hiredesai** (1NH20IS177), **Rohit Raj** (1NH20IS135) and **Chayan Paikara** (1NH20IS199), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. Archana Das**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Ms. Neha Jadhav, NHCE
2. Prof. Nikhil, REVA University

Signature with Date

Neha J 29/05/24

29/05/24

**NEW HORIZON COLLEGE OF ENGINEERING**
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Engine Locking System for Drunken Drivers", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Anish Prasad Gupta
USN: 1NH20IS192

Name: Tanusha P Hiredesai
USN: 1NH20IS177

Name: Rohit Raj
USN: 1NH20IS135

Name: Chayan Paikara
USN: 1NH20IS199

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE II REPORT ON

## Hepatitis Detection: Leveraging Logistic Regression, SVM and Decision Trees for Early Detection

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**Khushboo**

**1NH20IS074**

**Manoj S**

**1NH20IS084**

**ManyaAdhikari**

**1NH20IS085**

**P Jaya Veer**

**1NH20IS102**

*Under the guidance of*

**Ms. Sriharshini Devi Kaipa**

Asst. Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-II work entitled **"Hepatitis Detection: Leveraging Logistic Regression, SVM and Decision Trees for Early Detection"**, carried out by **Khushboo (1NH20IS074)**, **Manoj S (1NH20IS084)**, **Manya Adhikari (1NH20IS085)** and **P Jaya Veer (1NH20IS102)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. Sriharshini Devi Kaipa**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Krishnaveni A
2. Manjula M

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled **"Hepatitis Detection: Leveraging Logistic Regression, SVM and Decision Trees for Early Detection"**, and is uniquely prepared by us after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Khushboo

USN: 1NH20IS074

Name: Manoj S

USN: 1NH20IS084

Name: Manya Adhikari

USN: 1NH18IS133

Name: P Jaya Veer

USN: 1NH20IS102

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**PROJECT PHASE -II REPORT ON**

**"Greenhouse Monitoring System"**

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

By

**Harshita Mahapatra**
**1NH20IS057**

**Shraddha C K**
**1NH20IS157**

**Sukriti Sneha**
**1NH20IS171**

**Vidushi Shrivastava**
**1NH20IS183**

*Under the guidance of*

**Ms. Shubhi Srivastava**

Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the project phase-II work entitled **"Greenhouse Monitoring System"**, carried out by **Ms. Harshita Mahapatra (1NH20IS057), Ms. Shraddha C K (1NH20IS157), Ms. Sukriti Sneha (1NH20IS171) and Ms. Vidushi Shrivastava (1NH20IS183)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.
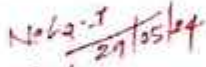
Name & Signature of the Guide
**Ms. Shubhi Srivastava**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

Signature with Date

1. Ms. Neha Jadhav, NHCE

NeHa J
27/5/24

2. Prof.Nikhil, REVA University

Sd/29/5/24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "Greenhouse Monitoring System", and is uniquely prepared by us after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Harshita Mahapatra
USN: 1NH20IS057

Shraddha C K
USN: 1NH20IS157

Sukriti Sneha
USN: 1NH20IS171

Vidushi Shrivastava
USN: 1NH20IS183

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -II REPORT ON

## "Wildlife Safety Software Using CNN"

*Submitted in the partial fulfillment of the requirements in the*

*8ᵗʰ semester of*

### BACHELOR OF ENGINEERING

### IN

### INFORMATION SCIENCE AND ENGINEERING

By

**Akshitha R**

**1NH20IS012**

**Hemashree R**

**1NH20IS061**

**Shraddha H.Kamath**

**1NH21IS414**

**Subhajit Dhara**

**1NH19IS164**

*Under the guidance of*

**Ms.Archana Das**

Assistant professor, Dept. Of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

## *CERTIFICATE*

Certified that the project phase-II work entitled "**Wildlife safety software using CNN**", carried out by **Akshitha R (1NH20IS012), Hemashree R(1NH20IS061), Shraddha H.Kamath(1NH21IS414)** and **Subhajit Dhara (1NH19IS164)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestion indicated for Internal Assessment have been in corporate in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work Project prescribed for the said Degree.

Name & Signature of the Guide

**Ms.Archana Das**

Name & Signature of the HOD

**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Ms. Neha Jadhav, NHCE
2. Prof. Nikhil, REVA University

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We here by declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "Wildlife safety software" and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Akshitha R

USN:1NH20IS012

Name: Hemashree R

USN:1NH20IS061

Name: Shraddha H Kamath

USN:1NH21IS414

Name: Subhajit Dhara

USN:1NH19IS164

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE -2 REPORT ON

## "SMART AGRI IRRIGATION USING INTERNET OF THINGS"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By
**TARUN NAIK - 1NH20IS178**
**TEJAS N - 1NH20IS180**
**YUVARAJ NP - 1NH20IS189**
**SUHAS N REDDY - 1NH20IS198**

*Under the guidance of*

**Ms. Sriharshini Devi Kaipa**

Assistant Professor, Dept. of ISE, NHCE

## ACADEMIC YEAR: 2023-24

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## CERTIFICATE

Certified that the project phase-2 work entitled **"SMART AGRI IRRIGATION USING INTERNET OF THINGS"**, carried out by **TARUN NAIK** (1NH20IS178), **TEJAS N** (1NH20IS180), **YUVARAJ NP** (1NH20IS189), and **SUHAS N REDDY** (1NH20IS198), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. Sriharshini Devi Kaipa**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Ms. Neha Jadhav, NHCE

2. Prof. Nikhil, REVA University

Signature with Date

Neha J 29/05/24

29/05/24

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "SMART AGRI IRRIGATION USING INTERNET OF THINGS", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Tarun Naik

Name: Tejas N

Name: Yuvaraj NP

Name: Suhas N Reddy

USN: 1NH20IS178

USN: 1NH20IS180

USN: 1NH20IS189

USN: 1NH20IS198

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT REPORT ON

### "Insight Stream: A Real-Time Perspective on Classroom Environment"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Abdul Manan**
**1NH20IS005**
**Akshith Krishnan**
**1NH20IS011**
**Arvinda H B**
**1NH20IS018**
**Aslam Asgar Khan**
**1NH20IS020**

*Under the guidance of*

**Ms. Shubhi Srivastava**

Assistant Professor, Dept. of ISE, NHCE

### ACADEMIC YEAR: 2023-24

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled **"Insight Stream: A Real-Time Perspective on Classroom Environment"**, carried out by **Mr. Abdul Manan (1NH20IS005)**, **Mr. Akshith Krishnan (1NH20IS011)**, **Mr. Arvinda H B (1NH20IS018)** and **Mr. Aslam Asgar Khan (1NH20IS020)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswarayaTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. Shubhi Srivastava**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Krishnaveni. A
2. Manjula. M

Signature with Date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Insight Stream: A Real-Time Perspective on Classroom Environment", and is uniquely prepared byus after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Abdul Manan     Name: Akshith Krishnan     Name: Arvinda H B     Name: Aslam Asgar Khan

USN: 1NH20IS005     USN: 1NH20IS011     USN: 1NH20IS018     USN: 1NH20IS020
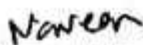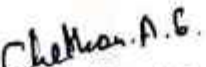
# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -II REPORT ON

## "SKILL-QUEST: A Comprehensive System for Cluster Based Resume Evaluation and Ranking Using LLM"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING

IN

### INFORMATION SCIENCE AND ENGINEERING

By

**A NAVEEN**
**1NH20IS001**

**CHETHAN A S**
**1NH20IS035**

**HEMSAGAR N M**
**1NH20IS062**

**HRITHIK U**
**1NH20IS063**

*Under the guidance of*

**Dr. ANANDHI R J**

Dean Academics, NHCE

## ACADEMIC YEAR: 2023-24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-II work entitled "**SKILL-QUEST: A Comprehensive System for Cluster Based Resume Evaluation and Ranking Using LLM**", carried out by **Mr. A NAVEEN** (1NH20IS001), **Mr. CHETHAN A S** (1NH20IS035), **Mr. HEMSAGAR N M** (1NH20IS062) and **Mr. HRITHIK U** (1NH20IS063), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
Dr. Anandhi R J

Name & Signature of the HOD
Dr. Vandana C P

**External Viva**

Name of the Examiners

1. Prof. Maria Kiran

2. Mrs. Neetu

Signature with Date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "SKILL-QUEST: A Comprehensive System for Cluster Based Resume Evaluation and Ranking Using LLM", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

| Name: A Naveen | Name: Chethan A S | Name: Hemsagar N M | Name: Hrithik U |
|---|---|---|---|
| USN: 1NH20IS001 | USN: 1NH20IS035 | USN: 1NH20IS062 | USN: 1NH20IS063 |

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -II REPORT ON

### "LOST-O-FOUND : DEMENTIA CARE"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Keerthana S**

**1NH20IS072**

Na Jayapriya

**1NH20IS091**

**Nikhitha P**

**1NH20IS095**

Nithya Santhoshini N

**1NH20IS099**

*Under the guidance of*

**Ms. Neha Jadhav**

Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-II work entitled **"Lost-O-Found : Dementia Care"**, carried out by **Ms. Keerthana S** (1NH20IS072), **Ms. NA Jayapriya** (1NH20IS091), **Ms. Nikhitha P** (1NH20IS095) and **Ms. Nithya Santhoshini N** (1NH20IS099), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. Neha Jadhav**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Prof. Maria Kiran
2. Ms. Neetu

Signature with Date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "Lost-O-Found : Dementia Care", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name : Keerthana S
USN   : 1NH20IS091

Name : NA Jayapriya
USN   : 1NH20IS091

Name : Nikhitha P
USN   : 1NH20IS095

Name : Nithya Santhoshini N
USN   : 1NH20IS099

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE -II REPORT ON

## "IoT Based Medical Assessor and Predictor for HealthCare Solutions"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Hasan Arshad**

1NH20IS060

**Harsh Mehra**

1NH20IS056

**Sayantan Pakrey**

1NH20IS197

**Siddhant Sinha**

1NH19IS221

*Under the guidance of*

**Ms. Bibiana Jenifer J**

Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**
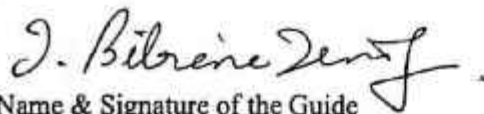
## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*
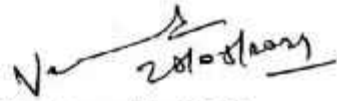
Certified that the project phase-II work entitled **"IoT Based Medical Assessor and Predictor for HealthCare Solutions"**, carried out by **Hasan Arshad** (1NH20IS060), **Harsh Mehra** (1NH20IS056), **Sayantan Pakrey** (1NH20IS197) and **Siddhant Sinha** (1NH19IS221), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
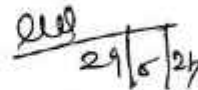
**Ms. Bibiana Jenifer J**
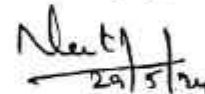
Name & Signature of the HOD

**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Prof. Malia Kiran

2. Mrs. Neetu

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "IoT Based Medical Assessor and Predictor for HealthCare Solutions", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for our academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Hasan Arshad
USN: 1NH20IS060

Name: Harsh Mehra
USN: 1NH20IS056

Name: Sayantan Pakrey
USN: 1NH20IS197

Name: Siddhant Sinha
USN: 1NH19IS221

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
### PROJECT REPORT ON

## "Multi-sensory Device for Distance Measurement and Object Detection"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By
**Sneha Paul**

**1NH20IS165**

**Pragya**

**1NH20IS111**

**Sai Prashanth Dhavala**

**1NH20IS144**

**P.Divya**

**1NH20IS106**

*Under the guidance of*

**Mrs. Neetu**

Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

**NEW HORIZON**
**COLLEGE OF ENGINEERING**
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled "Multi-sensory Device for Distance Measurement and Object Detection", carried out by **Pragya(1NH20IS111),Sai Prashanth Dhavala(1NH20IS144)**, **Sneha Paul**(1NH20IS165) and **P.Divya** (1NH20IS106), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in

respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Mrs. Neetu**

Name & Signature of the HOD
**Dr. Vandana CP**

**External Viva**

Name of the Examiners

1. Prof. Maria Kiran

2. Mrs. Neetu

Signature with Date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Multi-sensory Device for Distance Measurement and Object Detection", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Sai Prashanth Dhavala
USN: 1NH20IS144

Name: Pragya
USN: 1NH20IS111

Name: Sneha Paul
USN: 1NH20IS165

Name: P.Divya
USN: 1NH20IS106

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

A PROJECT PHASE-II REPORT
ON
PROJECT TITLED

"Forest Intrusion Detection and Anti-Poaching Alarm System "

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE AND ENGINEERING

BY

Disha Sreedhar – 1NH20IS045

Roshini Sreekumar – 1NH20IS137

Sahana T – 1NH20IS143

Priyanka J - 1NH21IS412

*Under the guidance of*
**Ms. Neetu**
Assistant professor

**Academic Year: 2023-24**

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## CERTIFICATE

It is hereby certified that the Project Phase-II work entitled ""Forest Intrusion Detection and Anti-Poaching Alarm System" is a bonafide work carried out by **Disha Sreedhar (1NH20IS045), Roshini Sreekumar (1NH20IS137), Sahana T (1NH20IS143), Priyanka J (1NH21IS412)** in partial fulfilment for the award of **Bachelor of Engineering in INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

**Ms. Neetu**

Signature of HOD

**Dr. Vandana C P**

### SEE Viva

Name of Examiner

1. Prof. Maria Kiran

2. Mrs. Neetu

Signature with date

29/5/24

Scanned with OKEN Scanner

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Forest Intrusion Detection and Anti-Poaching Alarm System", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Disha Sreedhar  Name: Roshini Sreekumar     Name: Sahana T            Name: Priyanka J

USN: 1NH20IS045      USN: 1NH20IS137          USN: 1NH20IS143         USN:1NH21IS412

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE-II REPORT ON

## "Chronic Obstructive Pulmonary Disease Prediction System"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**Inchara K**

**1NH20IS064**

**Kondapalli Vyshnavi**

**1NH20IS075**

**Kusum V**

**1NH20IS076**

**Sabah Fatima**

**1NH17IS086**

*Under the guidance of*

**Ms. Krishnaveni A**

Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled **"Chronic Obstructive Pulmonary Disease Prediction System"**, carried out by **Ms. Inchara K** (1NH20IS064), **Ms. Kondapalli Vyshnavi** (1NH20IS075), **Ms. Kusum V** (1NH20IS076) and **Ms. Sabah Fatima** (1NH17IS086), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
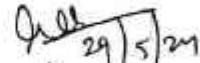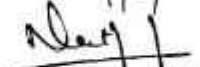**Ms. Krishnaveni A**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Prof. Malik Kiran
2. Mrs. Neetu

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Chronic Obstructive Pulmonary Disease Prediction System", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Inchara K

USN: 1NH20IS064

Name: K Vyshnavi

USN: 1NH20IS075

Name: Kusum V

USN: 1NH20IS076

Name: Sabah Fatima

USN: 1NH17IS086

A PROJECT PHASE-II REPORT
ON

# "DETECTION OF POVERTY USING DEEP LEARNING"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

HARI KRISHNA M
1NH20IS054

C SAI SOURABH
1NH20IS034

BHARGAV M
1NH20IS023

Under the guidance of
Ms.RAMA BANSIDHAR DAN
Assistant Professor,
Dept. of ISE, NHCE

Academic Year: 2023-24

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Project Phase-II work entitled "Detection of Poverty using Deep Learning" is a bonafide work carried out by **HARI KRISHNA M (1NH20IS054) and C SAI SOURABH (1NH20IS034) and BHARGAV M(1NH20IS023)** in partial fulfilment for the award of **Bachelor of Engineering** in **INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Name & Signature of the Gui
**Ms.Rama Bansidhar Dan**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Prof. Maria Kiran
2. Mrs. Neetu

Signature with Date

Scanned with OKEN Scanner

NEW HORIZON COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

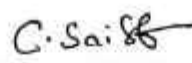## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-ll report and presented report of project titled "DETECTION OF POVERTY USING DEEP LEARNING", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

Signature of the Students

Name: Hari Krishna M

USN: 1NH20IS054

Name: C Sai Sourabh

USN: 1NH20IS034

Name: Bhargav M

USN: 1NH20IS023

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE - II REPORT ON

## "Online Analysis of Ingredient Safety, Leveraging OCR and Machine Learning for Enhanced Consumer Product Safety"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Adithya D**

**1NH20IS007**

**Dhyan D Kedilaya**

**1NH20IS044**

**Shreyas S Gondkar**

**1NH20IS161**

**Sourabh Halhalli**

**1NH20IS168**

*Under the guidance of*

**Dr. Vandana C P**

HOD and Associate Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR:** 2023-24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the Project Phase-II work entitled **"Online Analysis of Ingredient Safety, Leveraging OCR and Machine Learning for Enhanced Consumer Product Safety"**, carried out by **Mr. Adithya D (1NH20IS007)**, **Mr. Dhyan D Kedilaya** (1NH20IS044), **Mr.Shreyas S Gondkar (1NH20IS161)** and **Mr. Sourabh Halhalli (1NH20IS168)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Dr. Vandana C P**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

Signature with Date

1. Krishnaveni A

2. Manjula. M

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the Project Phase-II report and presented report of project titled "Online Analysis of Ingredient Safety, Leveraging OCR and Machine Learning for Enhanced Consumer Product Safety", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

**Adithya D**
**USN: 1NH20IS007**

**Dhyan D Kedilaya**
**USN: 1NH20IS044**

**Shreyas Š Gondkar**
**USN: 1NH20IS161**

**Sourabh Halhalli**
**USN: 1NH20IS168**

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE -II REPORT ON

## " Micro Organism Image Recognition and Disease Prediction Based on DL"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**Aakash.B**

**1NH20IS002**

**Saran.B.V.N**

**1NH20IS028**

**Vishnu.C**

**1NH20IS033**

**Abhi.K**

**1NH20IS067**

*Under the guidance of*

**MS.SHALINI A**

Senior Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the project phase-2 work entitled "Micro Organism Image Recognition and Disease Prediction Based on DL", carried out by Mr.Aakash.B (1NH20IS002), Mr. Saran Rakesh.B.V.N(1NH20IS028),Mr.Vishnu Reddy.C(1NH20IS033) and Mr.AbhishekReddy (1NH20IS067),bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in theReport deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms.Shalini A**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Prof. Maria Kiran
2. Neetu

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "Micro Organism Image Recognition and Disease Prediction Based on DL", and is uniquely prepared byus after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name:Aakash
Usn:1NH20IS002

Name:Saran Rakesh
Usn:1NH20IS028

Name:Vishnu Reddy
Usn:1NH20IS033

Name:Abhishek
Usn:1NH20IS067

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE -2 REPORT ON

## "Water Quality Monitoring System"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

**BACHELOR OF ENGINEERING**
**IN**
**INFORMATION SCIENCE AND ENGINEERING**

By
**Khooshi Dutta - 1NH20IS073**
**Ritika Patil - 1NH20IS133**
**Presha Stephen – 1NH20IS121**
**S Shivani – 1NH20IS141**

### Under the guidance of

**Ms. Shruthi G R**

Sr. Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the project phase-2 work entitled **"Water Quality Monitoring System"**, carried out by **Khooshi Dutta** (1NH20IS073), **Ritika Patil** (1NH20IS133), **Presha Stephen** (1NH20IS121) and **S Shivani** (1NH20IS141) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It I s certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. Shruthi G R**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiner

Signature with Date

1. Prof. Malia hiram

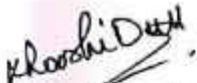2. Neetu

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented a report of the project titled "Water Quality Monitoring System", which is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.
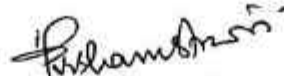
**Signature of the Students**
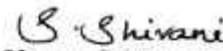
Name: Khooshi
Dutta

USN: 1NH20IS073

Name: Ritika Patil

USN: 1NH20IS133

Name: Presha Stephen

USN: 1NH20IS121

Name: S Shivani

USN: 1NH20IS141

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

**Jnana Sangama, Belagavi, Karnataka - 590014**

**A PROJECT REPORT
ON**

**"PERCEPTI ALARM: A Beacon of Safety and Autonomy Leveraging OCR and ML"**

**(SPONSORED BY KSCST)**

Project report submitted in the partial fulfillment of the requirements for the award of the degree of

**BACHELOR OF ENGINEERING IN
INFORMATION SCIENCE AND
ENGINEERING**

Submitted by

| | |
|---|---|
| **Jashwanth D S** | **(1NH20IS065)** |
| **Jayam Surendra Anil** | **(1NH20IS066)** |
| **K L Tejas** | **(1NH20IS068)** |

Under the guidance of
**Mrs. Priya N**
Sr Assistant Professor

**NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**
Bangalore-560103
**2023-24**

**NEW HORIZON**
**COLLEGE OF ENGINEERING**
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-2 work entitled **"PERCEPTI ALARM : A Beacon of Safety and Autonomy Leveraging OCR and ML"**, carried out by **JASHWANTH D S (1NH20IS065)**, **JAYAM SURENDRA ANIL (1NH20IS066)** and **K L TEJAS (1NH20IS068)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide

**Ms. PRIYA N**

Name & Signature of the HOD

**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Prof. Maria Kiran

2. Mrs. Neetu

Signature with Date

29/5/24

29/5/24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### <u>DECLARATION</u>

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "PERCEPTI ALARM : A Beacon of Safety and Autonomy Leveraging OCR and ML", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Jashwanth D S

USN: 1NH20IS065

Name: Jayam Surendra Anil

USN: 1NH20IS066

Name: K L Tejas

USN: 1NH20IS068

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT REPORT ON

## "Deep Learning Agent For Traffic Signal Control"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**Praneeth**

**Sanapala**

**1NH20IS114**

**Punith C**

**1NH20IS122**

**Rahul G**

**1NH20IS127**

**Rohith Rajendran**

**1NH20IS136**

*Under the guidance of*

**Ms. T N Chitti**

Sr. Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work on entitled **"Deep Learning Agent For Traffic Signal Control"**, carried out by **Mr. Praneeth Sanapala** (1NH20IS114), **Mr. Punith C** (1NH20IS122), **Mr. Rahul G** (1NH20IS127), **Mr. Rohith Rajendran**(1NH20IS136) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirement in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. T N Chitti**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Krishnaveni A
2. Manjula. M

Signature with Date

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented the report of project titled "Deep Learning Agent For Traffic Signal Control", and is uniquely prepared by us after the completion of the project work. We also confirm that the report sis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of anydegree.

**Signature of the Students**

Name: Praneeth Sanapala
USN: 1NH20IS114

Name: Punith C
USN: 1NH20IS122

Name: Rahul G
USN: 1NH20IS127

Name: Rohith Rajendran
USN: 1NH20IS136

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE –II

## REPORT ON

## "URBANFLOW-TRAFFIC MANAGEMENT SYSTEM USING IOT"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**P Bhargav Reddy**
**1NH20IS120**
**Prajwal A S**

**1NH20IS112**

**Praveen M**
**1NH20IS119**

**Raghavendra S**
**1NH20IS126**

*Under the guidance of*

**Ms. Karthiyayini J**

Sr. Assistant Professor, Dept. of ISE, NHCE

## ACADEMIC YEAR: 2023-24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## CERTIFICATE

Certified that the Project Phase-2 work entitled **"URBANFLOW - TRAFFIC MANAGEMENT SYSTEM USING IOT"**, carried out by **Mr. P Bhargav Reddy**(1NH20IS110), **Mr. Prajwal A S**(1NH20IS112), **Mr. Praveen M** (1NH20IS119), and **Mr. Raghavendra S** (1NH20IS126), bona fide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections

/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Name & Signature of Guide

**Ms. J Karthiyayini**

Name & Signature of HOD

**Dr.Vandana C P**

**External Viva**

Name of the Examiners

1. SYED HAYATH

2. J. Karthiyayini

Signature with date

signatures with dates 29/5

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "URBANFLOW – TRAFFIC MANAGEMENT SYSTEM USING IOT", and is uniquely prepared by us afterthe completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name:P Bhargav Reddy
USN : 1NH20IS110

Name:Prajwal A S
USN : 1NH20IS112

Name:Praveen M
USN : 1NH20IS119

Name : Raghavendra S
USN:1NH20IS126

**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**

**PROJECT PHASE-II REPORT ON**

# "CATTLE DISEASE PREDICTION USING MACHINE LEARNING "

*Submitted in the partial fulfillment of the requirements in the 8ᵗʰ semester of*

BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE AND ENGINEERING

By

**M Parnika -1NH20IS082**

**Suraj Antony Raj A -1NH20IS173**

**T Pranay -1NH20IS176**

**K Harinath Reddy -1NH20IS193**

*Under the guidance of*
**Mrs. DIVYA K V**
Senior Assistant Professor, Dept. of ISE, NHCE

**Academic Year: 2023-24**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-II work entitled **"CATTLE DISEASE PREDICTION USING MACHINE LEARNING"**, carried out by **Ms. M Parnika** (1NH20IS082), **Mr. Suraj Antony Raj A** (1NH20IS173), **Mr. T Pranay** (1NH20IS176) and **Mr. K Harinath Reddy**(1NH20IS193), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Mrs. DIVYA K V**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

Signature with Date

1. SYED HAYATH

2. J. Karthiyayini

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "CATTLE DISEASE PREDICTION USING MACHINE LEARNING" and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: M.Parnika    Name: Suraj Antony Raj A    Name: T Pranay    Name: K Harinath reddy

USN: 1NH20IS082    USN: 1NH20IS173    USN: 1NH20IS176    USN: 1NH20IS193

# NEW HORIZON
## COLLEGE OF ENGINEERING

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -II REPORT ON

## "Dam Montoring And Management System Using IoT"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By
**Ameer N**

**1NH21IS402**

**MohammedSayeed**

**1NH21IS406**

**Nahim A**

**1NH21IS407**

**Ramesh N**

**1NH21IS413**

*Under the guidance of*

**Dr. Divya Kumari**

Designation, Associate professor Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-2 work entitled **"Dam Monitoring and Management System using IoT"**, carried out by **Mr. Ameer N**(1NH21IS402), **Mr. MohammedSayeed** (1NH21IS406) ,**Mr. Nahim A** (1NH21IS407) and **Mr. Ramesh N**(1NH21IS413) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
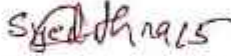**Dr. Divya Kumari**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. SYED HAYATH

2. J. Karthiyayini

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Dam Monitoring And Management System using IoT", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Ameer N

USN: 1NH21IS402

Name: MohammmedSayeed

USN: 1NH21IS406

Name: Nahim A

USN: 1NH21IS407

Name: Ramesh N

USN: 1NH21IS413

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -2 REPORT ON

## "SAFEZONE - Construction Safety Management using Deep Learning and Computer Vision"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING IN INFORMATION SCIENCE AND ENGINEERING

By

**Muhammad Hisham Gundagi**

**1NH20IS089**

**Praneeth V**

**1NH20IS115**

**Shourya Biswas**

**1NH20IS156**

**Mohammed Yousuf**

**1NH20IS087**

*Under the guidance of*

**Dr. Kalaivani D**

Associate Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

**NEW HORIZON**
**COLLEGE OF ENGINEERING**
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the project phase-2 work entitled **"SafeZone - Construction Safety Management using Deep Learning and Computer Vision"**, carried out by **Mr. Muhammad Hisham Gundagi** (1NH20IS089), **Mr. Praneeth V** (1NH20IS115) and **Mr. Shourya Biswas** (1NH20IS156), **Mr. Mohammed Yousuf**(1NH20IS087), are bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide

**Dr. Kalaivani**

Name & Signature of the HOD

**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. SYED HAYATH

2. J. Karthiyayini

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## <u>DECLARATION</u>

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "SafeZone - Construction Safety Management using Deep Learning and Computer Vision", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Muhammad Hisham Gundagi
USN: 1NH20IS089

Name: Praneeth V
USN: 1NH20IS115

Name: Shourya Biswas
USN: 1NH20IS156

Name: Mohammed Yousuf
USN: 1NH20IS087

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -2 REPORT ON

## "UNVEILING THE FUTURE OF FINANCIAL SECURITY"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

**Ruheen Naaz**

**1NH20IS140**

**Sonika C V**

**1NH20IS167**

**Sukrutha M Kumar**

**1NH20IS172**

**T Namratha**

**1NH20IS175**

*Under the guidance of*

**Dr. ARVIND S. KAPSE**

Professor, Dept. of ISE, NHCE

### ACADEMIC YEAR: 2023-24

NEW HORIZON
COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-2 work entitled **"UNVEILING THE FUTURE OF FINANCIAL SECURITY"**, carried out by **Ruheen Naaz (1NH20IS140), Sonika C V(1NH20IS167)** and **Sukrutha M Kumar(1NH20IS172), T Namratha(1NH20IS175)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Dr. Arvind S Kapse**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. SYED HAYATH
2. J. Karthiyayini

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented a report of the project titled "Unveiling the Future of Financial Security", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Ruheen Naaz
USN: 1NH20IS140

Name: Sonika C V
USN: 1NH20IS167

Name: Sukrutha M Kumar
USN: 1NH20IS172

Name: T Namratha
USN: 1NH20IS175

# NEW HORIZON
## COLLEGE OF ENGINEERING

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -II REPORT ON

### "Votereum- Blockchain Based Secure Voting System "

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING
By

Nitish Veni
1NH20IS101

Pranith Kumar M
1NH20IS116

Manoj H
1NH20IS083

Hrishikesh Purohit
1NH20IS123

*Under the guidance of*

Dr. Divya Kumari

**Associate Professor, Dept. of ISE, NHCE**
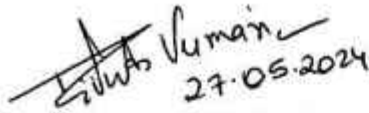
**ACADEMIC YEAR: 2023-24**

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Project Phase-I work entitled "Votereum- Blockchain Based Secure Voting System" is a bonafide work carried out by **Nitish Veni (1NH20IS101), Pranith Kumar M (1NH20IS116), Manoj H (1NH20IS083) and Hrishikesh Purohit (1NH20IS123)** in partial fulfilment for the award of **Bachelor of Engineering** in **INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

27·05·2024

Signature of Guide

**Dr. Divya Kumari**
Associate Professor

Signature of HOD

**Dr. Vandana CP**

**External Viva**

Name of Examiner

Signature with date

1. SYED HAYATH

2. J. Karthiyayini

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Votereum- Blockchain Based Secure Voting System", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Nitish Veni
USN: 1NH20IS101

Name: Pranith Kumar M
USN: 1NH20IS116

Name: Manoj H
USN: 1NH20IS083

Name: Hrishikesh Purohit
USN: 1NH20IS123

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE -II REPORT ON

### "MastroWorkforce – Securing Workforce Efficiency with HCM Excellence"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING
### IN
### INFORMATION SCIENCE AND ENGINEERING

By

| | |
|---|---|
| **Rudwaj SK** | **Sakshith C Billava** |
| **1NH20IS139** | **1NH20IS146** |
| | |
| **Sudarshan B** | **Shivaraj CM** |
| **1NH20IS169** | **1NH20IS155** |

*Under the guidance of*

Dr. Rajlakshmi Ghatkamble

**Associate Professor, Dept. of ISE, NHCE**

**ACADEMIC YEAR: 2023-24**

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Project Phase-I work entitled "MastroWorkforce – Securing Workforce Efficiency with HCM Excellence" is a bonafide work carried out by **Rudwaj SK (1NH20IS139), Sakshith C Billava (1NH20IS146), Shivaraj CM (1NH20IS155)** and **Sudarshan B (1NH20IS169)** in partial fulfilment for the award of **Bachelor of Engineering** in **INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

**Dr. Rajlakshmi Ghatkamble**
Associate Professor

Signature of HOD

**Dr. Vandana CP**

**External Viva**

Name of Examiner

1. SYED HAZNTM

2. J. Kanthiyayini

Signature with date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "MastroWorkforce – Securing Workforce Efficiency with HCM Excellence", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Rudwaj SK
USN: 1NH20IS139

Name: Sakshith C Billava
USN: 1NH18IS146

Name: Shivaraj CM
USN: 1NH20IS155

Name: Sudarshan B
USN: 1NH20IS169

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## A PROJECT PHASE-II REPORT
## ON
## PROJECT TITLED

## "STANFORD RIBONANZA FOLDING "

Submitted in partial fulfillment for the award of the degree of

### BACHELOR OF ENGINEERING

### IN

### INFORMATION SCIENCE AND ENGINEERING

### BY

| | |
|---|---|
| PANDURANGA A  J | 1NH20IS107 |
| TEJAS MONDEERI | 1NH20IS179 |
| SWATI RAVISHYAM | 1NH20IS191 |

*Under the guidance of*
Dr.  KALAIVANI D
Associate professor

## Academic Year: 2023  24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Project work entitled "STANFORD RIBONANZA FOLDING" is a bonafide work carried out by PANDURANGA JAVALAGERI (1NH20IS107) and TEJAS MONDEERI(1NH20IS179) and SWATI RAVISHYAM (1NH20IS191)in partial fulfilment for the award of Bachelor of Engineering in INFORMATION SCIENCE AND ENGINEERING of the New Horizon College of Engineering during the year 2023 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Dr. KALAIVANI D)

Signature of HOD

(Dr .Vandana CP)

### SEE Viva

Name of Examiner

1. SYED HAYATH

2. J. Karthiyagini

Signature with date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase 2 report and presented report of project titled "STANFORD RIBONANZA FOLDING", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Tejas Mondeeri S

USN: 1NH20IS179

Name: Panduranga AJ

USN: 1NH18IS107

Name: Swati Ravishyam

USN: 1NH20IS191

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT PHASE - II REPORT ON

### "Cardiovascular Disease Prediction using Machine Learning"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING

### IN

### INFORMATION SCIENCE AND ENGINEERING

### By

**Abhinav Kumar**

**1NH20IS200**

**Md Adil Anwar Khan**

**1NH20IS086**

**Vishal Kumar**

**1NH20IS185**

*Under the guidance of*

Dr. Arvind S. Kapse

Professor

Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the project phase-2 work entitled "**Cardiovascular Disease Prediction using Machine Learning Algo**", carried out by **Mr. Abhinav Kumar (1NH20IS200)**, **Mr. Md Adil Anwar Khan (1NH20IS086)** and **Mr. Vishal Kumar (1NH20IS185)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide

**Dr. Arvind S. Kapse**

Name & Signature of the HOD

**Dr. Vandana C P**

**External Viva**

Name of the Examiners

Signature with Date

1. Krishnaveni. A
2. Manjula. M

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Cardiovascular Disease Prediction using Machine Learning Algo", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

Signature of the Students

Name: Abhinav Kumar

USN: 1NH20IS200

Name: Md Adil Anwar Khan
USN: 1NH20IS086

Name: Vishal Kumar
USN: 1NH20IS185

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE - II REPORT ON

## "CREDIT CARD SCORE PREDICTION"

*Submitted in the partial fulfillment of the requirements in the 8ᵗʰ semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**CHIRAG M**

**1NH20IS037**

**D A RITESH**

**1NH20IS038**

**D SHIVKUMAR GOUD**

**1NH20IS039**

**P NITHIN**

**1NH20IS105**

*Under the guidance of*

**Dr. K. Saravanan**

Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project phase-II work entitled **"Credit Card Score Prediction"**, carried out by **Chirag M** (1NH20IS037), **D A Ritesh** (1NH20IS038), **D Shivkumar Goud** (1NH20IS039) and **P Nithin** (1NH20IS105) bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Dr. K. Saravanan**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. SYED HAYATH

2. J. Kaathiyayini

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-II report and presented report of project titled "Credit Card Score Prediction", and is uniquely prepared by us after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Chirag M

USN: 1NH20IS037

Name: D A Ritesh

USN: 1NH20IS038

Name: D Shivkumar Goud

USN: 1NH20IS039

Name: P Nithin

USN: 1NH20IS105

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT REPORT ON

"Smart Gas Leakage Detector Bot"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING IN
## INFORMATION SCIENCE AND ENGINEERING

By

| | |
|---|---|
| Ramagiri T R | 1NH20IS128 |
| Pramod G S | 1NH21IS411 |
| VIKAS H S | 1NH21IS417 |

### Under the guidance of

**Ms. T N Chitti**

Senior Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

### DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Project work entitled "Smart Gas Leakage Detector Bot" is a bonafide work carried out by **Ramagiri TR(1NH20IS128), Pramod GS(1NH21IS411)** and **Vikas H S (1NH21IS417)** in partial fulfilment for the award of **Bachelor of Engineering** in **INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

**Ms. T N Chitti**

Signature of HOD

**Dr. Vandana CP**

**External Viva**

Name of Examiner

Signature with date

1. SYED HAYATH

2. J. Karthiyayini

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project p report and presented report of project titled "Smart Gas Leakage Detector Bot",and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Ramagiri TR
USN: 1NH20IS128

Name: Pramod GS
USN: 1NH21IS411

Name: Vikas HS
USN: 1NH21IS417

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE- II
## REPORT ON

## "Yuj : Solace Amidst Distress"

Submitted in partial fulfillment for the award of the degree of

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION SCIENCE AND ENGINEERING**

**BY**

Sachin Mengji - 1NH20IS142
Satyajeet Kumar - 1NH20IS150
Shashi Kant Kumar S - 1NH20IS152
Shreyas N - 1NH20IS160

*Under the guidance of*
**Ms. Karthiyayini J**
Sr. Assistant Professor

# Academic Year: 2023-24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

Certified that the Project Phase-2 work entitled **"Yuj : Solace Amidst Distress"**, carried out by **Mr. Sachin Mengji (1NH20IS142)**, **Mr. Satyajeet Kumar (1NH20IS150)**, **Mr. Shashi Kant Kumar S (1NH20IS152)**,and **Mr. Shreyas N (1NH20IS160)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Name & Signature of Guide
**Ms. J Karthiyayini**

Name & Signature of HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. SYED HAYATH

2. J. Karthiyayini

Signature with date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Yuj : Solace Amidst Distress", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name : Sachin Mengji
USN : 1NH20IS142

Name : Satyajeet Kumar
USN : 1NH20IS150

Name : Shashi kant Kumar S
USN : 1NH20IS152

Name : Shreyas N
USN : 1NH20IS160

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### PROJECT REPORT ON

## "ChemCheck - An IoT based Device for Chemical Detection on Fruits and Vegetables"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

### BACHELOR OF ENGINEERING

IN

### INFORMATION SCIENCE AND ENGINEERING

## By

**Aishwarya D**

**1NH20IS008**

**Chandana Yuktha. S**

**1NH20IS030**

**Harshitha M**

**1NH20IS058**

**Mamtha S**

**1NH20IS081**

_Under the guidance of_

Dr. Vandana C P

Head of Dept, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

I

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled **"ChemCheck - An IoT Based Device for Chemical Detection on Fruits and Vegetables"**, carried out by **Ms. Aishwarya D (1NH20IS008), Ms. Chandana Yuktha S (1NH20IS030), Ms. Harshitha M (1NH20IS058)** and **Ms. Mamtha S (1NH20IS081)** bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the VisveswaraiahTechnological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respectof the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Dr. Vandana C P**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Krishnaveni A

2. Manjula. M

Signature with Date

2

## DPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "ChemCheck - An IoT Based Device for Chemical Detection on Fruits and Vegetables", and is uniquely prepared byus after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

| | | | |
|---|---|---|---|
| Name: Aishwarya D | Name: Chandana Yuktha S | Name: Harshitha M | Name: Mamtha S |
| USN: 1NH20IS008 | USN: 1NH20IS030 | USN: 1NH20IS058 | USN: 1NH20IS081 |

3

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT REPORT ON

## "Visionary Diagnosis: Exploring Cardiovascular Links in Retinal Imagery"

*Submitted in the partial fulfillment of the requirements in the 8ᵗʰ semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**Diwakar R V**

**1NH20IS046**

**Sravan Kumar T**

**1NH20IS181**

**B Jaffer Sadiq**

**1NH20IS194**

*Under the guidance of*

**Mrs. Rama Dan**

Assistant Professor, Dept. of ISE, NHCE

## ACADEMIC YEAR: 2023-24

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### *CERTIFICATE*

Certified that the project work entitled **"Visionary Diagnosis: Exploring Cardiovascular Links in Retinal Imagery "**, carried out by **Mr. Diwakar R V (1NH20IS046), Mr. Sravan Kumar T (1NH20IS181)** and **Mr. B Jaffer Sadiq (1NH20IS194)**, bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visvesvaraya Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Ms. Rama Dan**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Krishnaven.A
2. Manjula. M

Signature with Date

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Visionary Diagnosis: Exploring Cardiovascular Links in Retinal Imagery", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.
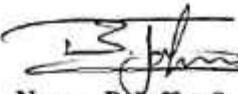
**Signature of the Students**

Name: Diwakar R V

USN: 1NH20IS046

Name: Sravan Kumar T

USN: 1NH20IS181

Name: B Jaffer Sadiq

USN: 1NH20IS194

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT REPORT ON

## "PRO SHEILD PROTECT"

*Submitted in the partial fulfillment of the requirements in the 8th semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By

**Vyshnavi .B**

**1NH20IS029**

**C.Raghu**

**1NH20IS032**

**P.Manikanta Kiran**

**1NH20IS103**

*Under the guidance of*

**Ms.Krishnaveni**

Assistant professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

**NEW HORIZON COLLEGE OF ENGINEERING**

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### CERTIFICATE

Certified that the project work entitled **"Pro Shield Protect "**, carried out by Ms. Vyshnavi Reddy.B (1NH20IS029), Mr. C.Raghu (1NH20IS032) and Mr. P.Manikanta Kiran (1NH20IS103), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
Ms. Krishnaveni

Name & Signature of the HOD
Dr. Vandana C P

External Viva

Name of the Examiners

Signature with Date

1. krishnaveni. A

2. Manjula. M

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project report and presented report of project titled "Pro Sheild Protect", and is uniquely prepared byus after the completion of the project work. We also confirm that the reportis only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

**Name: Vyshnavi Reddy**

USN: 1NH20IS029

**Name: C.Raghu**

USN: 1NH20IS032

**Name: P.Manikanta Kiran**

USN: 1NH20IS103

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## PROJECT PHASE -2 REPORT ON

## "Cancer care : Predicting the likelihood of cancer"

*Submitted in the partial fulfillment of the requirements in the 8<sup>th</sup> semester of*

## BACHELOR OF ENGINEERING
## IN
## INFORMATION SCIENCE AND ENGINEERING

By
**Abhishek Esapnor**
**1NH20IS006**
**Gagan Rao P**
**1NH20IS051**
**Varshitha S**
**1NH20IS182**

*Under the guidance of*

**Mrs. Priya N**

Sr. Assistant Professor, Dept. of ISE, NHCE

**ACADEMIC YEAR: 2023-24**

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## *CERTIFICATE*

Certified that the project phase-2 work entitled **"Cancer care : Predicting the likelihood of cancer "**, carried out by **Mr. Abhishek Esapnor** (1NH20IS006), **Mr. Gagan Rao P** (1NH20IS051) and **Ms. Varshitha S** (1NH20IS182), bonafide students of NEW HORIZON COLLEGE OF ENGINEERING, Bengaluru, is in partial fulfillment for the award of Bachelor of Engineering in Information Science and Engineering of the Visveswaraiah Technological University, Belgaum during the year 2023-24. It is certified that all corrections/ suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of the Project work prescribed for the said Degree.

Name & Signature of the Guide
**Mrs. Priya N**

Name & Signature of the HOD
**Dr. Vandana C P**

**External Viva**

Name of the Examiners

1. Krishnaveni. A

2. Manjula . M

Signature with Date

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Cancer care : Predicting the likelihood of cancer ", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Abhishek Esapnor          Name: Gagan Rao P          Name: Varshitha S

USN: 1NH20IS006          USN: 1NH20IS051          USN: 1NH20IS182

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

A PROJECT PHASE-II REPORT

ON

INTERDISCIPLINARY PROJECT TITLED

"Patient-Centric Breast Tumour Analysis: DenseNet 201-Based

Prediction and Personalized Recommendations "

Submitted in partial fulfillment for the award of the degree of

| BACHELOR OF ENGINEERING | BACHELOR OF ENGINEERING |
|---|---|
| IN | IN |
| COMPUTER SCIENCE AND ENGINEERING | INFORMATION SCIENCE AND ENGINEERING |
| BY | BY |
| AKHILA G S -1NH20CS020 | PRANATI PARASHAR -1NH20IS113 |
| ANANYA -1NH20CS027 | |
| ANKITA S -1NH20CS030 | |

*Under the guidance of*
**Ms. M. THANGA SUBHA DEVI**
Assistant Professor, Dept of CSE

*Under the guidance of*
**Dr. ARVIND S. KAPSE**
Professor, Dept of ISE

## Academic Year: 2023-24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled "Patient-Centric Breast Tumour Analysis: DenseNet 201-Based Prediction and Personalized Recommendations" is a bonafide work carried out by **PRANATI PARASHAR (1NH20IS113)** in partial fulfilment for the award of **Bachelor of Engineering** in **INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

**(Dr. Arvind S. Kapse)**

Signature of Guide

**(Ms. M. Thanga Subha Devi)**

Signature of HOD

**(Dr. Vandana C. P.)**

### SEE Viva

Name of Examiner

1. Dr. A Vendhew

2. Dr. Raj Lakshmi G

Signature with date

3/15/24

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled "Patient-Centric Breast Tumour Analysis: DenseNet 201-Based Prediction and Personalized Recommendations" is a bonafide work carried out by AKHILA G S (1NH20CS020), ANANYA (1NH20CS027) and ANKITA S (1NH20CS030) in partial fulfilment for the award of Bachelor of Engineering in COMPUTER SCIENCE AND ENGINEERING of the New Horizon College of Engineering during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Ms. M. Thanga Subha Devi)

Signature of Guide

(Dr. Arvind S. Kapse)

Signature of HOD

(Dr. B. Rajalakshmi)

### SEE Viva

Name of Examiner

1. Dr. C Nanethau

2. Dr. Ashok.k

Signature with date

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## A PROJECT PHASE-2 REPORT
## ON
## INTERDISCIPLINARY PROJECT TITLED

## "KANNADA MANUSCRIPT DIGITIZATION
## THROUGH OCR AND MACHINE LEARNING "

Submitted in partial fulfillment for the award of the degree of

| BACHELOR OF ENGINEERING | BACHELOR OF ENGINEERING |
|---|---|
| IN | IN |
| INFORMATION SCIENCE AND | COMPUTER SCIENCE AND |
| ENGINEERING | ENGINEERING |
| BY | BY |
| AJAY B J -1NH21IS401 | ABHILASH VIJAPUR -1NH20CS006 |
| SUHAS D R -1NH21IS416 | B MAHESH KUMAR -1NH20CS042 |

*Under the guidance of*
**Dr. RAJLAKSHMI GHATKAMBLE**
Associate Professor
Dept of ISE

*Under the guidance of*
**Ms. ASHA RANI BORAH**
Senior Assistant Professor
Dept of CSE

## Academic Year: 2023-24

# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-II work entitled "KANNADA MANUSCRIPT DIGITIZATION THROUGH OCR AND MACHINE LEARNING" is a bonafide work carried out by **AJAY B J (1NH21IS401)** and **SUHAS D R (1NH21IS416)** in partial fulfillment for the award of **Bachelor of Engineering** in **INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

**(Dr. Rajlakshmi Ghatkamble)**

Signature of Guide

**(Ms. Asha Rani Borah )**

Signature of HOD

**( Dr. Vandana C P)**

### SEE VIVA

Name of Examiner

Signature with date

1. Dr C Venolkeu

2. Dr. Ashok .k

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# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-I work entitled "KANNADA MANUSCRIPT DIGITIZATION THROUGH OCR AND MACHINE LEARNING" is a bonafide work carried out by **ABHILASH VIJAPUR (1NH20CS006)** and **B MAHESH KUMAR (1NH20CS042)** in partial fulfilment for the award of **Bachelor of Engineering in COMPUTER SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Dr.Rajlakshmi Ghatkamble)

Signature of Guide

(Dr. Asha Borah)

Signature of HOD

(Dr.B Rajalakshmi)

### SEE Viva

Name of Examiner

1. Dr C Venotti

2. Dr. Raj Lakshani G, NHCE

Signature with date

31/5/24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

A PROJECT PHASE-II REPORT

ON

INTERDISCIPLINARY PROJECT TITLED

## "COGNILEARN- EMPOWERING MINDS, POWERED BY AI "

Submitted in partial fulfillment for the award of the degree of

| BACHELOR OF ENGINEERING | BACHELOR OF ENGINEERING |
|---|---|
| IN | IN |
| COMPUTER SCIENCE AND ENGINEERING | INFORMATION SCIENCE AND ENGINEERING |
| BY | BY |

| | |
|---|---|
| NISCHITH TN -1NH20CS144 | BHARATH B -1NH20IS022 |
| SAKSHAM GUPTA -1NH20CS193 | |

| *Under the guidance of* | *Under the guidance of* |
|---|---|
| **Ms. ASHA RANI BORAH** | **Dr. VANDANA CP** |
| Senior Assistant Professor, CSE | Associate Professor & HOD,ISE |

## Academic Year: 2023-24

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled "COGNILEARN-EMPOWERING MINDS, POWERED BY AI" is a bonafide work carried out by **BHARATH B** **(1NH20IS022)** in partial fulfilment for the award of **Bachelor of Engineering** in **INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| | | |
|---|---|---|
| Signature of Guide | Signature of Guide | Signature of HOD |
| (Ms. Asha Rani Borah) | (Dr. Vandana C P ) | (HOD-ISE) |

## SEE Viva

Name of Examiner | Signature with date

1. Pr. C Venetten

2. Dr. Ashok .L

## A PROJECT PHASE-II REPORT
## ON
## INTERDISCIPLINARY PROJECT TITLED

## "REAL TIME MONITORING AND HEALTH MANAGEMENT OF AQUATIC LIFE WITH AQUATRACKER"

Submitted in partial fulfillment for the award of the degree of

| BACHELOR OF ENGINEERING | BACHELOR OF ENGINEERING |
|---|---|
| IN | IN |
| INFORMATION SCIENCE AND | COMPUTER SCIENCE AND |
| ENGINEERING | ENGINEERING |
| BY | BY |

SHREYA ACHARYA -1NH20IS159     MANIK GUPTA-1NH20CS124
SUDEEP M ARASHINGODI-1NH20CS216

*Under the guidance of*      *Under the guidance of*
**Dr. Rajlakshmi Ghatkamble**      **Ms. Asha Rani Borah**
Associate Professor      Senior Assistant Professor

## Academic Year: 2023-24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled "REAL TIME MONITORING AND HEALTH MANAGEMENT OF AQUATIC LIFE WITH AQUATRACKER" is a bonafide work carried out by SHREYA ACHARYA(1NH20IS159) in partial fulfilment for the award of **Bachelor of Engineering** in INFORMATION SCIENCE AND ENGINEERING of the New Horizon College of Engineering during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Dr. Rajlakshmi Ghatkamble)

Signature of Guide

(Ms. Asha Rani Borah)

Signature of HOD

(Dr. Vandana C P)

### SEE Viva

Name of Examiner

1. Dr. C. Vonathi

2. Dr. Ashok. k

Signature with date

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# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled "REAL TIME MONITORING AND HEALTH MANAGEMENT OF AQUATIC LIFE WITH AQUATRACKER" is a bonafide work carried out by **SUDEEP M ARASHINGODI (1NH20CS216)** and **MANIK GUPTA (1NH20CS124)** in partial fulfilment for the award of Bachelor of Engineering in **COMPUTER SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Dr. Rajlakshmi Ghatkamble)

Signature of Guide

(Ms. Asha Rani Borah)

Signature of HOD

(Dr. B. Rajalakshmi)

## SEE Viva

Name of Examiner

1. Dr. C Vendha

2. Dr. Raj Lakshmi G

Signature with date

31 | 5 | 2024

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

A PROJECT PHASE-II REPORT

ON

INTERDISCIPLINARY PROJECT TITLED

## " Authenticheck: Spotting Phony Profiles "

Submitted in partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

BY

ARSHLAN HASSAN -1NH20CS037

HARSHIT SINGH -1NH20CS084

HARSHIT TYAGI -1NH20CS085

BACHELOR OF ENGINEERING

IN

INFORMATION SCIENCE AND ENGINEERING

BY

SHIVANG SETH-1NH20IS153

*Under the guidance of*
**Ms. Chempavathy B**
Sr. Assistant Professor

*Under the guidance of*
**Mrs.Shruthi GR**
Sr. Assistant Professor

## Academic Year: 2023-24

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-II work entitled "AUTHENTICHECK:SPOTTING PHONY PROFILES" is a bonafide work carried out by SHIVANG SETH (1NH20IS153) in partial fulfilment for the award of **Bachelor of Engineering** in **INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

**Ms. Chempavathy B**

Signature of Guide

**Ms. Shruthi GR**

Signature of HOD

**Dr . Vandana CP**

## SEE Viva

Name of Examiner

1. Dr. C. Venothini

2. Dr. Ashok k

Signature with date

.................................

.................................

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# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-II work entitled "AUTHENTICHECK:SPOTTING PHONY PROFILES " is a bonafide work carried out by ARSHLAN(1NH20CS037),HARSHITSINGH(1NH20CS084),HARSHITTYAGI(1NH20CS085)In partial fulfilment for the award of Bachelor of Engineering in COMPUTER SCIENCE AND ENGINEERING of the New Horizon College of Engineering during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Ms. Chempavathy B)

Signature of Guide

(Ms. Shruthi GR)

Signature of HOD

(Dr.B Rajalakshmi)

### SEE Viva

Name of Examiner

1. Dr C Verolthini

2. Dr. Raj Lakshmi G.

Signature with date

31|5|24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

A PROJECT PHASE-II REPORT
ON
INTERDISCIPLINARY PROJECT TITLED

## "SPEECH ENHANCED INTELLIGENT SEARCH USING DEEP

## LEARNING"

Submitted in partial fulfillment for the award of the degree of

| BACHELOR OF ENGINEERING | BACHELOR OF ENGINEERING |
|---|---|
| IN | IN |
| COMPUTER SCIENCE AND ENGINEERING | INFORMATION SCIENCE AND ENGINEERING |
| BY | BY |

AASHUTOSH GUPTA -1NH20CS001          SIDDHARTH BOKKA -1NH20IS162

ABHISHEK V -1NH20CS009

AMOGH PATIL -1NH20CS025

*Under the guidance of*                    *Under the guidance of*
**Ms. FLORANCE G**                         **Ms. SHRUTHI G R**
Senior Assistant Professor, CSE            Senior Assistant Professor, ISE

## Academic Year: 2023-24

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-II work entitled "SPEECH ENHANCED INTELLIGENT SEARCH USING DEEP LEARNING" is a bonafide work carried out by **AASHUTOSH GUPTA (1NH20CS001), ABHISHEK V (1NH20CS009)** and **AMOGH PATIL (1NH20CS025)** in partial fulfilment for the award of **Bachelor of Engineering** in **COMPUTER SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024.** It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Ms. Florance G)

Signature of Guide

(Ms. Shruthi G R)

Signature of HOD

(Dr. B. Rajalakshmi)

### SEE Viva

Name of Examiner

1. Dr C Vinothini

2. Dr. Ashok. K

Signature with date

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

# DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-II work entitled "SPEECH ENHANCED INTELLIGENT SEARCH USING DEEP LEARNING" is a bonafide work carried out by SIDDHARTH BOKKA (1NH20IS162) in partial fulfilment for the award of **Bachelor of Engineering in INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Ms. Florance G)

Signature of Guide

(Ms. Shruthi G R)

Signature of HOD

(Dr. Vandana C P)

**SEE Viva**

Name of Examiner

1. Dr. A Vnolbru

2. Dr. Raj Lakshmi G, NHCE
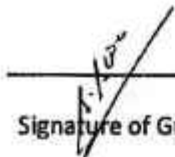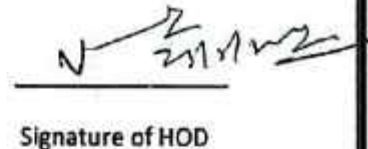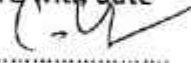
Signature with date

31/5/24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

A PROJECT PHASE-II REPORT

ON

INTERDISCIPLINARY PROJECT TITLED

## "TUBERCULOSIS AND PNEUMONIA DETECTION USING CHEST X-RAY"

Submitted in partial fulfilment for the award of the degree of

| BACHELOR OF ENGINEERING | BACHELOR OF ENGINEERING |
|---|---|
| IN | IN |
| INFORMATION SCIENCE AND ENGINEERING | COMPUTER ENGINEERING |
| BY | BY |
| K HARSHITH - 1NH20IS190 | PAVANA M - 1NH20CE031 |
| SHRIDHAR GAVADI - 1NH21IS415 | R MANASA - 1NH20CE034 |

*Under the guidance of*
**Dr. Sivaramakrishnan S**
Associate Professor

*Under the guidance of*
**Dr. C R Rathish**
Associate Professor

## Academic Year: 2023-24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

## CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-II work entitled "TUBERCULOSIS AND PNEUMONIA DETECTION USING CHEST X-RAY" is a bonafide work carried out by K HARSHITH (1NH20IS190) and SHRIDHAR GAVADI (1NH21IS415) in partial fulfilment for the award of **Bachelor of Engineering in INFORMATION SCIENCE AND ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Dr. Sivaramakrishnan S)

Signature of Guide

(Dr. C R Rathish)

Signature of HOD

(Dr. Vandana C P)

### SEE Viva

Name of Examiner

1. Dr. C Verathini
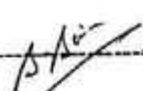
2. Dr. Rijdakshmi G, NHCE

Signature with date

31/5/24

# NEW HORIZON
## COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF COMPUTER ENGINEERING

## CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-II work entitled "TUBERCULOSIS AND PNEUMONIA DETECTION USING CHEST X-RAY" is a bonafide work carried out by PAVANA M (1NH20CE031) and R MANASA (1NH20CE034) in partial fulfilment for the award of Bachelor of Engineering in COMPUTER ENGINEERING of the New Horizon College of Engineering during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide
(Dr. Sivaramakrishnan S)

Signature of Guide
(Dr. C R Rathish)

Signature of HOD
(Dr. T Kavitha)

### SEE Viva

Name of Examiner

Signature with date

1. Dr. C. Venothini

2. Dr. Rajalakshmi G. MHLE

3/5/24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

PROJECT PHASE-II REPORT
ON
INTERDISCIPLINARY PROJECT TITLED

# "DETECTING DANGEROUS PESTS IN FARMS USING DEEP LEARNING"

*Submitted in the partial fulfillment for the award of the degree of*

BACHELOR OF ENGINEERING
IN
INFORMATION SCIENCE AND ENGINEERING

BY

YUVARAJ K M   – 1NH20IS188
SUDHARSHAN R  – 1NH20IS170

BACHELOR OF ENGINEERING
IN
COMPUTER ENGINEERING

BY

SIVANI REDDY K – 1NH20CE049
E VANAJA – 1NH20CE012

*Under the guidance of*

**Dr. SIVARAMAKRISHNAN S**

Associate Professor

*Under the guidance of*

**Dr. C.R. RATHISH**

Associate Professor

**Academic Year: 2023-24**

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
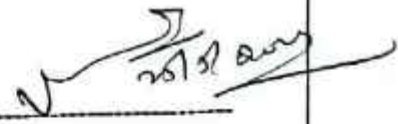Accredited by NAAC with 'A' Grade, Accredited by NBA

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the Interdisciplinary Project Phase-2 work entitled "DETECTING DANGEROUS PESTS IN FARMS USING DEEP LEARNING" is a bonafide work carried out by YUVARAJ K M (1NH20IS188) and SUDHARSHAN R (1NH20IS170) in partial fulfilment for the award of Bachelor of Engineering in INFORMATION SCIENCE AND ENGINEERING of the New Horizon College of Engineering during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.
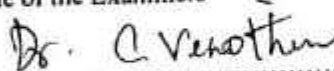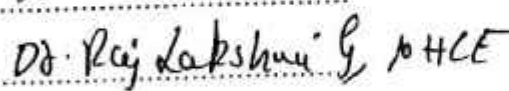
Signature of the Guide
(Dr. SIVARAMAKRISHNAN S)

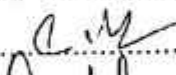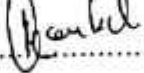Signature of Guide
(Dr. C.R. RATHISH)

Signature of HOD
(Dr. Vandana C P)

## External Viva

Name of the Examiners

Signature with Date

1. Dr. C Venothen

2. Dr. Raj Lakshmi G, NHCE

3||5|24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "**Detecting Dangerous Pests In Farms Using Deep Learning**", and is uniquely prepared byus after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

**Signature of the Students**

Name: Yuvaraj K M
USN: 1NH20IS188

Name: Sudharshan R
USN: 1NH20IS170

Name: Sivani Reddy K
USN: 1NH20CE049

Name: E Vanaja
USN: 1NH20CE012

# NEW HORIZON
## COLLEGE OF ENGINEERING
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

A PROJECT PHASE-II REPORT
ON
INTERDISCIPLINARY PROJECT TITLED

## "Fitness Tracker "

Submitted in partial fulfillment for the award of the degree of

| | |
|---|---|
| **BACHELOR OF ENGINEERING** | **BACHELOR OF ENGINEERING** |
| **IN** | **IN** |
| **INFORMATION SCIENCE AND** | **COMPUTER ENGINEERING** |
| **ENGINEERING** | BY |
| BY | SANDEEP HUKUM DHANAI - 1NH20CE066 |

AKASH KUMAR SEN -1NH20IS009

PARTHA PRATIM SEM -1NH20IS108

CHAITANYA BHARADWAJ -1NH20IS201

*Under the guidance of*
**Ms. Pramila S**
Assistant Professor

*Under the guidance of*
**Dr. K. Saravanan**
Senior Assistant Professor

## Academic Year: 2023-24

## DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

# CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled "FITNESS TRACKER" is a bonafide work carried out by AKASH KUMAR SEN (1NH20IS009), PARTHA PRATIM SEM (1NH20IS108) and CHAITANYA BHARADWAJ (1NH20IS201) in partial fulfilment for the award of Bachelor of Engineering in INFORMATION SCIENCE AND ENGINEERING of the New Horizon College of Engineering during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

(Dr. K. Sarvanan)

Signature of Guide

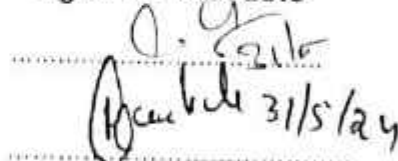(Ms. Pramila S)

Signature of HOD

(HOD-ISE)

## SEE Viva

Name of Examiner

1. Dr. C Venolthini

2. Dr. Rajalakshmi G, NHCE

Signature with date

31/5/24

## DEPARTMENT OF COMPUTER ENGINEERING

# CERTIFICATE

It is hereby certified that the interdisciplinary project phase-II work entitled **"FITNESS TRACKER"** is a bonafide work carried out by **SANDEEP HUKUM DHANAI (1NH20CE066)** in partial fulfilment for the award of **Bachelor of Engineering** in **COMPUTER ENGINEERING** of the New Horizon College of Engineering during the year **2023-2024**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

| | | |
|---|---|---|
| Signature of Guide | Signature of Guide | Signature of HOD |
| (Dr. K. Saravanan) | (Ms. Pramila S) | (HOD-CE) |

### SEE Viva

Name of Examiner | Signature with date

1. ........................................

2. Dr. Rajlakshmi G, PH-CE        ........ 31/5/24

## DEPARTMENT OF INFORMATION SCIENCE AND COMPUTER ENGINEERING

### DECLARATION

We hereby declare that we have followed the guidelines provided by the Institution in preparing the project phase-2 report and presented report of project titled "Fitness Tracker", and is uniquely prepared by us after the completion of the project work. We also confirm that the report is only prepared for my academic requirement and the results embodied in this report have not been submitted to any other University or Institution for the award of any degree.

Signature of the students

Name: Akash Sen

USN: 1NH20IS009

Name: Partha Pratim Sen

USN: 1NH20IS108

Name: Chaitanya Bharadwaj

USN: 1NH20IS201

Name: Sandeep Dhanai

USN: 1NH20CE066