NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

ALUMNI TALK - EVEN SEM (2025)

Subject: Uses cases of AI in SDLC

Expert name: Mr. Amogh Bharadhwaj

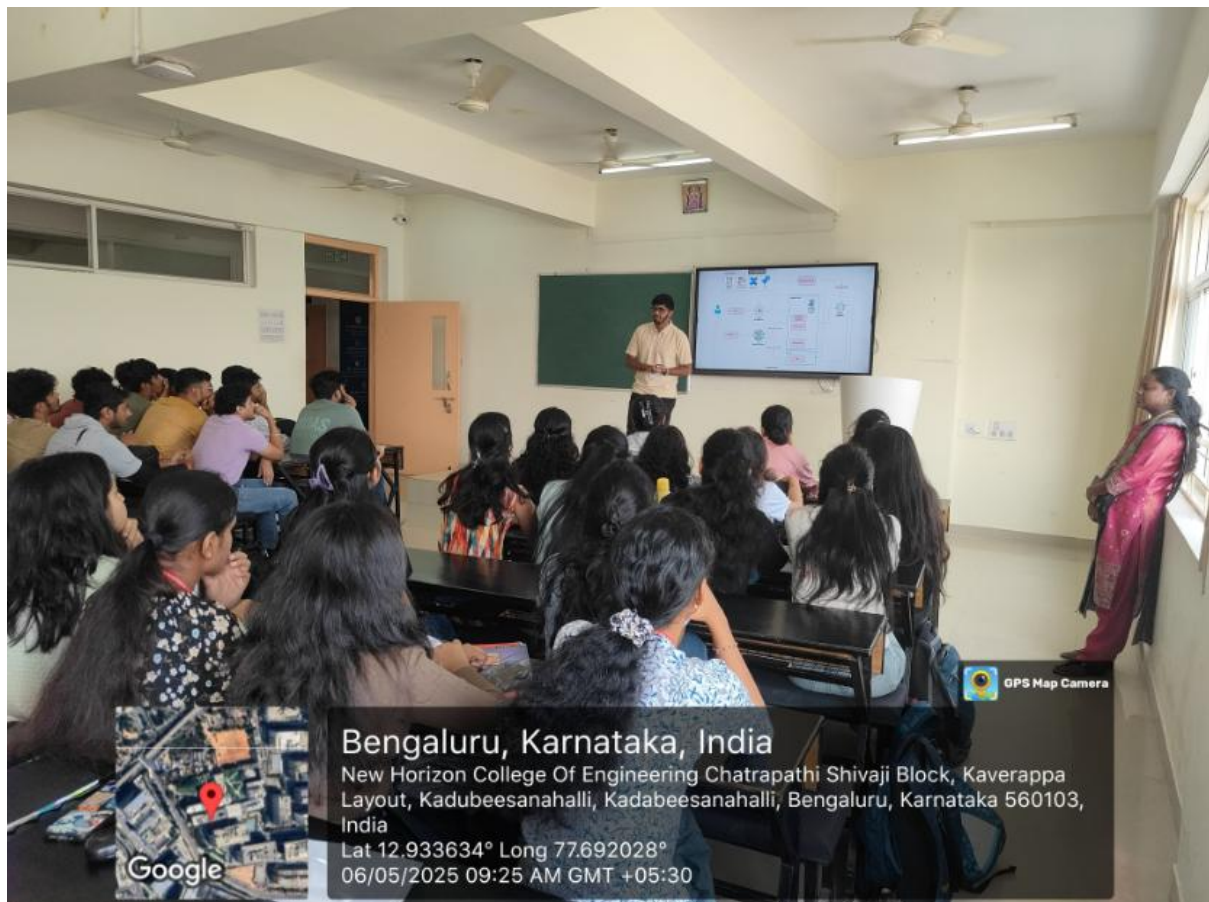**Audience: 4th Semester Students**   **Date: 7-05-2025 (09:00A.M-10:00 A.M)**

The Department of Information Science and Engineering has conducted an Alumni talk on the topic "**Uses cases of AI in SDLC**" for the 4th-semester students on the 7th of May, 2025 under the supervision of Dr. Vandana C P, Head of the Department in offline mode. The Expert speaker, Mr. Amogh Bharadwaj was invited to conduct the same.

• The Speaker, Mr. Amogh Bharadhwaj, currently a Software Development Engineer-1 at Junglee Games, explores the complexities of SDLC by delving into the applications of AI in software development.

VARIOUS SESSION THROUGHOUT THE PROGRAM

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Alumni Talk by Mr. Amogh Bharadhwaj

TOPICS COVERED:

- Use cases
- Types of SDLC Models.
- AI Techniques.
- Gen AI Diagram

AI is increasingly integrated into the **Software Development Life Cycle (SDLC)** to improve efficiency, accuracy, and speed. Here are key **AI use cases in each SDLC phase**, followed by an offer to generate a visual diagram.

- **Natural Language Processing (NLP):** Analyze stakeholder documents to extract functional and non-functional requirements.
- **Chatbots/Assistants:** Help clarify ambiguous requirements through interactive Q&A.
- **Sentiment Analysis:** Assess stakeholder satisfaction or concern in feedback.
- **Test Case Generation:** AI creates unit, integration, or UI tests from code or requirements.
- **Defect Prediction:** Prioritize areas of code more likely to fail.
- **Test Optimization:** Eliminate redundant test cases and speed up regression testing.

❖ QUESTION ANSWER SESSION

The speaker addressed key questions, including how to create use cases and how to draw GenAI diagrams. As a result, students gained valuable insights into the future scope of AI in the Software Development Life Cycle (SDLC), enhancing their understanding of its growing significance in the industry.

Class Teacher

Mrs.Shubhi Srivastava

Alumni Talk Coordinator

 Mrs.A.Shalini