



NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

AN EXPERT TALK on “Time Series Analysis, Forecasting, and Auto-correlation in High-Dimensional Spaces: Insights for Healthcare and Economics”

The Department of Information Science & Engineering, New Horizon College of Engineering had organized an **Expert Talk** on “**Time Series Analysis, Forecasting, and Auto-correlation in High-Dimensional Spaces: Insights for Healthcare and Economics**” on Wednesday, 26-03-25 in ISE Department, ChhatrapatiShivaji Block, NHCE at 11.00 am.

The brochure of the event :

The brochure features the logos of New Horizon College of Engineering, Computer Society of India (CSI), Society for Technical Education (SITE), and IEEE. The event details are as follows:

- Department of Information Science and Engineering
- Expert Talk
- Time Series Analysis, Forecasting and Autocorrelation in High-Dimensional Spaces: Insights for Healthcare and Economics**
- 26 March 2025
- 10:00 AM - 11:00AM
- C-524, ISE Department
- 6th sem students
- Dr. Jobin Thomas**, Assistant Professor, Leap-RV University, Bangalore

Faculty Coordinator: Mrs. Sweet Subhashree, Sr. Assistant Professor, ISE
Convener: Dr. Vandana C P, Associate Prof., HOD-ISE
Dean Academics: Dr. R J Anandhi
Principal: Dr. Manjunatha

Fig 1

The Department of Information Science and Engineering at New Horizon College of Engineering organized an expert talk on "Time Series Analysis, Forecasting, and Auto-correlation in High-Dimensional Spaces: Insights for Healthcare and Economics" on 26th March 2025. The event aimed to provide in-depth knowledge and practical applications of time series analysis and forecasting techniques in high-dimensional data, particularly in the fields of healthcare and economics.

Objective of the Talk

The session was designed to:

- Introduce fundamental concepts of time series analysis and forecasting.
- Explore auto-correlation in high-dimensional data.
- Discuss real-world applications in healthcare and economic forecasting.
- Enhance participants' understanding of statistical and machine learning techniques for time series data.

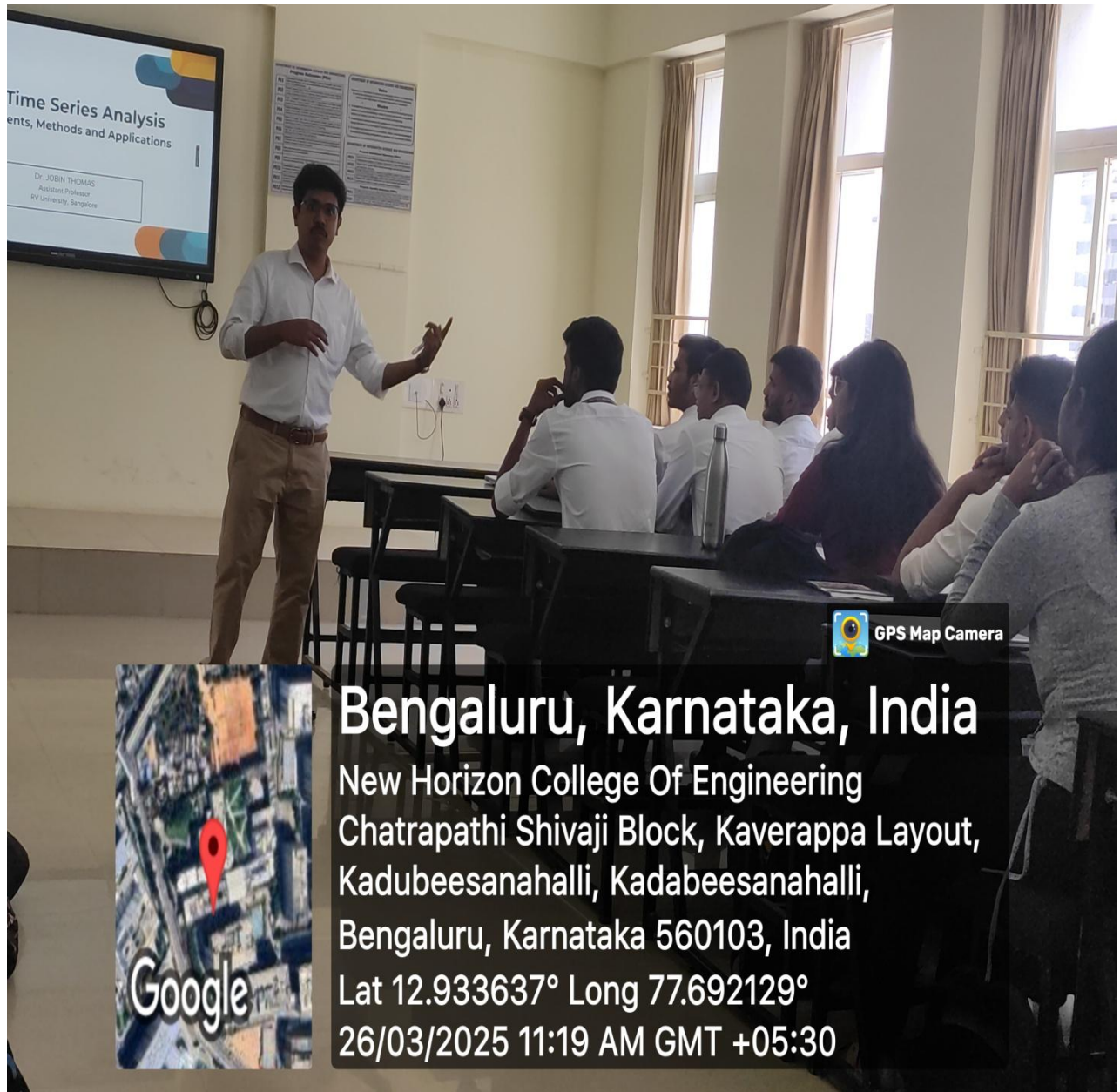
Key Takeaways

- **Understanding Time Series Data:** The speaker provided an overview of time series data, its characteristics, and challenges associated with high-dimensional datasets.
- **Forecasting Techniques:** Various forecasting methods, including ARIMA, exponential smoothing, and deep learning models such as LSTMs, were discussed.
- **Auto-correlation and Its Significance:** The concept of auto-correlation in high-dimensional spaces was explained, emphasizing its role in identifying patterns and trends in large datasets.
- **Applications in Healthcare and Economics:** The talk highlighted case studies where time series analysis plays a crucial role, such as predicting disease outbreaks, patient monitoring, stock market trends, and economic indicators.
- **Hands-on Demonstrations:** The session included a practical demonstration of time series forecasting using Python and machine learning libraries.

Audience Engagement

The talk was well-received by students, faculty members. A Q&A session followed the presentation, where participants clarified their doubts and discussed further research opportunities in time series forecasting.

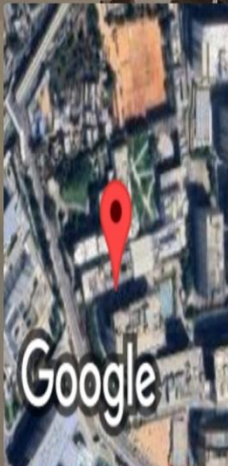
The expert talk provided valuable insights into time series analysis, forecasting, and auto-correlation in high-dimensional spaces. It successfully bridged the gap between theoretical knowledge and practical applications in healthcare and economic domains. The session concluded with a vote of thanks to the speaker and organizers.



Time Series Analysis
Concepts, Methods and Applications

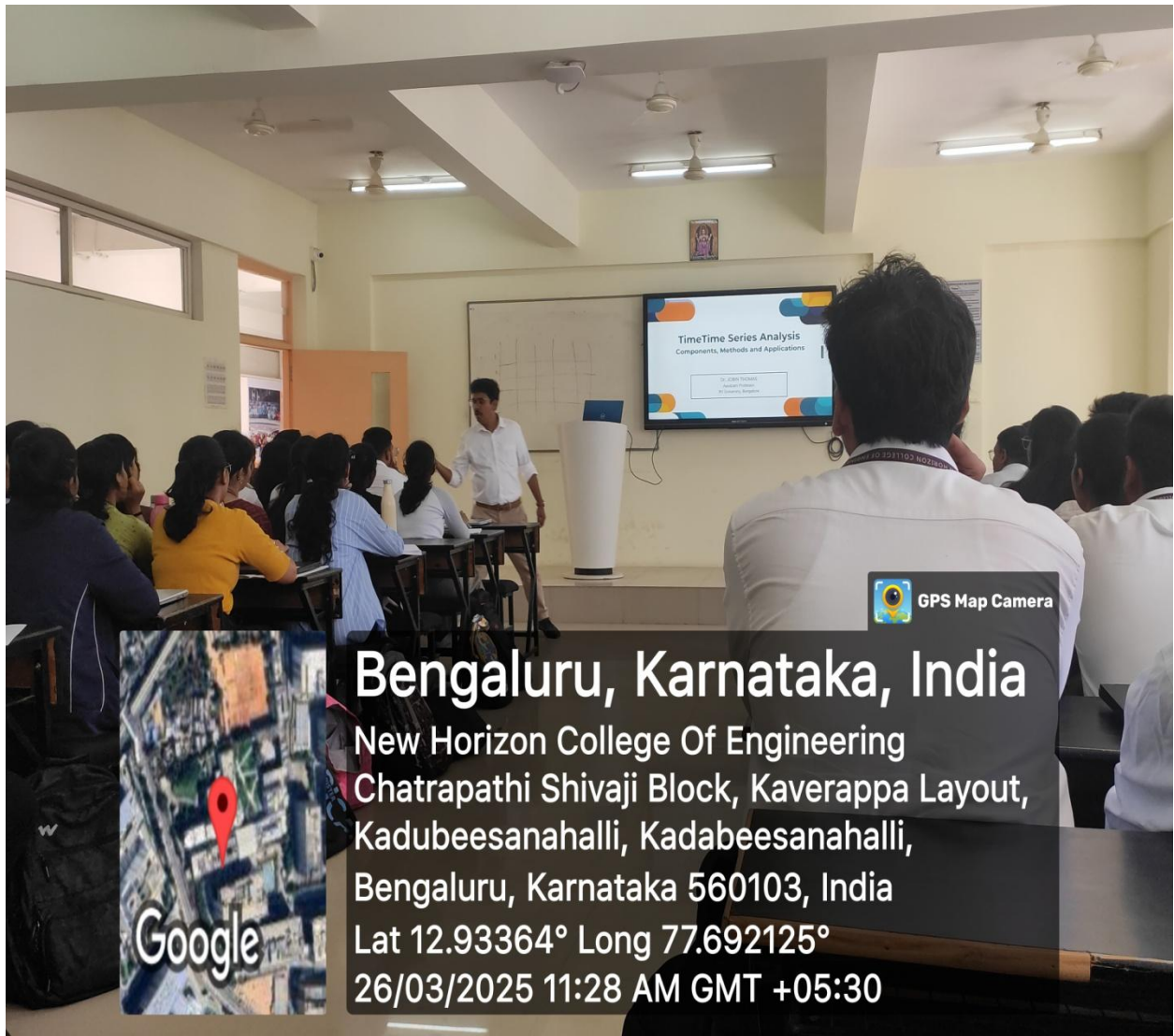
Dr. JOBIN THOMAS
Assistant Professor
RV University, Bangalore

GPS Map Camera



Bengaluru, Karnataka, India

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Faculty Coordinator

HOD-ISE