Guest Lecture Report on Transformer Models in Deep Learning

Date: 7th March 2026

Venue: AI&DS Seminar Hall, 2nd Floor

Resource Person: Dr. Nahar Singh, AI Manager, Continental, Bengaluru.

Number of Students Participated: 130 (VI-SEM-A&B)

Department: AI&DS

Faculty Coordinators: Mr. S. Ramesh, Assistant Professor

Mr. J. Nagaraju, Sr. Assistant Professor

1. Introduction

The Department organized a guest lecture titled **'Transformer Models in Deep Learning'** to enhance students' knowledge of modern artificial intelligence techniques. The lecture was delivered by **Dr. Nahar Singh,** an expert in the field of machine learning and deep learning. The objective of the lecture was to introduce students to transformer architectures, their working principles, and their importance in solving complex problems in artificial intelligence.

2. Objectives of the Topic

- To introduce the fundamentals of Deep Learning and Transformer Models.
- To explain the limitations of traditional models such as Recurrent Neural Networks (RNNs).
- To understand the Self-Attention mechanism used in transformer architecture.
- To highlight applications of transformers in Natural Language Processing and AI systems.
- To encourage students to explore research areas in Artificial Intelligence.

3. Session Highlights

- Overview of Artificial Intelligence, Machine Learning, and Deep Learning.

- Introduction to Transformer architecture and encoder–decoder structure.
- Explanation of Self-Attention mechanism.
- Discussion on applications such as machine translation, text generation, and chatbots.
- Introduction to popular models like BERT and GPT.

4. Conclusion

The guest lecture was highly informative and beneficial for students. It provided valuable insights into transformer models and their applications in modern artificial intelligence systems. The session motivated students to learn more about deep learning and explore advanced AI technologies.

Gallery of the Guest Lecture

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Dr. P. Bhgath

Head of the Department