Guest Lecture from the Department of Computer Science & Engineering

**Affiliated to Visvesvaraya Technological University,
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Accredited by NBA and NAAC.**

A Report on Guest lecture on "THE COGNITIVE MACHINES WITH ADVANCES IN GEN AI"

Date of the event	10-10-24
Title of the Event	**Guest lecture on "THE COGNITIVE MACHINES WITH ADVANCES IN GEN AI"**
Organized by	Dept of Computer Science and Engineering MVJCE, Bangalore

The Department of Computer Science and Engineering organized an event entitled. The event was Guest seminar on "THE COGNITIVE MACHINES WITH ADVANCES IN GEN AI" conducted in "MVJ AUDITORIUM". The event started at 10:30 am and concluded at 12.30 pm. Total 260 students from all the 5th & 7th semesters of Dept. of Computer Science and Engineering, Computer Science and Design, and Artificial Intelligence and Machine Learning has participated in this event.

Chief guest **Mr. Manish K Agarwal**

He who is an Director of Technical operation, Infinera India Pvt Ltd, he is Managing a global team (BLR, Ottawa, SJ, and Lisbon) of highly talented optical networking and tool development engineers. GenAI based application and tool development in-house (open-source RAG and agentic RAG pipeline) and projects with vendor partners.

Figure 1: The event featured a prestigious dais, where honored dignitaries, who had been specially invited, were seated.

Figure 2: Principal Dr. Umamaheswaran R Sir presented a sapling to Speaker as a token of love and appreciation, symbolizing the growth and nurturing of relationships.

Figure 3: Principal Sir delivered an inspiring address to guests, students and faculties members

Principal **Dr. Umamaheswaran R** sir delivered an inspiring address to guests, students and faculty at the "Empowering Future Generations" event, emphasizing the significance of cognitive machines and General AI in shaping our future and The principal's address successfully conveyed the institution's commitment to empowering future generations through cognitive machines and General AI.

Figure 4 :Speaker started a session

The guest speaker shared insightful perspectives on The Cognitive Machines With Advances in Gen AI, covering the latest trends, challenges, and opportunities in these rapidly evolving fields As these technologies continue to evolve, addressing challenges and limitations will be crucial for widespread adoption.

Figure 5: Students actively participated In the event

The event saw enthusiastic participation from students, who engaged actively with the speaker, asking insightful questions and displaying a keen interest in the topic. The interactive session was marked by a high level of energy and excitement, as students seized the opportunity to learn from the speaker's expertise and experiences.

Here are the highlights of " The Cognitive Machines With Advances In Gen AI "

Cognitive machines with advances in General AI (Gen AI) have revolutionized the way machines interact with humans and their environment. These machines are designed to simulate human intelligence, learn from experience, adapting to new situations, and making decisions autonomously.

Gen AI enables machines to generate new ideas, images, text, and music, using neural networks, rule-based systems, and statistical methods. Cognitive machines can interpret and interact with human language, facilitating tasks like translation, speech recognition, and sentiment analysis. Enhances automation technologies, expanding the range and complexity of tasks that can be automated.

Figure 6: Speaker concluded the session conveyed the importance of cognitive machines and General AI.

The event successfully conveyed the The event successfully conveyed the importance of cognitive machines and General AI, empowering future generations., empowering future generations.

The outcomes of the guest lecture on " The Cognitive Machines With Advances In Gen AI " in points:

Knowledge Outcomes:

1. Acquiring data and creating rules to transform it into actionable information

2. Choosing the right algorithm to reach a desired outcome.

3. learning and tuning themselves for accurate results.

4. Generating new images, text, music, and ideas using neural networks and statistical methods.

Skill Outcomes:

1. Analyze complex data, identify patterns and make informed decisions.

2. evaluate information, identify biases and make objective decisions.

3. generate new ideas, images, text and music, using neural networks and statistical methods.

4. identify patterns in data, enabling applications like image recognition and predictive analytics.

5. performance, adjusting strategies to optimize outcomes

Faculty Coordinator of the event:

NAVYA KS (AP, Dept of CSE)