

Report on Generative AI and Agentic AI

Venue: Ethonotech Lab, MIT Mysore

Speaker: *Mr. Dev Bhushan, CEO – GetSkilled*

Date & Time: 31st October 2025, 10:00 AM – 4:00 PM

Audience: 5th Semester Data Science Students

1. Introduction

A one-day workshop on “Generative AI and Agentic AI” was conducted at Ethonotech Lab, MIT Mysore, on 31st October 2025. The session was organized exclusively for 5th Semester Data Science students to explore the emerging paradigms of artificial intelligence and their impact on modern data-driven systems.

The session was led by Mr. Dev Bhushan, the CEO of GetSkilled, who is a renowned expert in Artificial Intelligence, Automation, and Emerging Technologies. The event provided students with a conceptual and practical understanding of the evolution from Generative AI to Agentic AI, highlighting their applications, challenges, and future potential.

2. Objectives of the Workshop

- To introduce students to the concepts and architectures of Generative AI and Agentic AI.
 - To help participants understand the difference between reactive and autonomous AI systems.
 - To demonstrate real-world applications and tools using both AI paradigms.
 - To encourage students to explore innovative projects in AI and automation.
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3. Session Overview

The workshop began at 10:00 AM with a welcome address by the faculty coordinator, followed by the keynote session by Mr. Dev Bhushan.

He provided a clear distinction between Generative AI, which focuses on creating new content, and Agentic AI, which emphasises goal-oriented, autonomous decision-making and action.

The presentation covered key AI frameworks, including Large Language Models (LLMs) like GPT and multimodal agents capable of planning and execution.

Interactive demos showcased how Generative AI tools like ChatGPT and DALL·E generate text and images from user prompts, while Agentic AI frameworks such as LangChain and AutoGPT perform autonomous task completion.

4. Key Concepts Discussed

4.1 Generative AI (Gen AI)

Generative AI models learn from vast datasets to create original content, including text, images, and code. Examples: ChatGPT, DALL·E, GitHub Copilot.

Applications:

- Text and image generation

- Automated code writing
- Content summarisation and idea creation

Limitations:

- May generate incorrect or biased outputs
 - Relies heavily on input prompts
 - Lacks autonomous goal-oriented behaviour
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4.2 Agentic AI

Agentic AI represents the next stage of AI evolution — systems that can reason, plan, and act autonomously to achieve goals with minimal human supervision.

Features:

- Goal-driven and context-aware
- Performs multi-step reasoning and planning
- Integrates with APIs, databases, and tools

Applications:

- Intelligent assistants and workflow automation
- Data analysis and report generation
- Autonomous research and decision support

Challenges:

- Complexity in design and control
 - Ethical and accountability concerns
 - Requires safety measures and human oversight
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5. Comparison Between Generative and Agentic AI

Aspect	Generative AI	Agentic AI
Objective	Creates new content	Achieves goals autonomously
Nature	Reactive (responds to prompts)	Proactive (acts and decides)
Core Function	Generates text, images, or code	Executes tasks and manages workflows
Autonomy	Limited	High
Example Tools	ChatGPT, DALL·E	AutoGPT, LangChain Agents

6. Student Engagement

The session was interactive and engaging, with students participating actively in the Q&A discussions and hands-on demonstrations.

Participants explored how data science techniques can be integrated with AI agents for smarter, more adaptive solutions.

Mr. Dev Bhushan also guided students on potential career paths and research opportunities in AI-driven fields.

7. Outcomes of the Workshop

By the end of the session, students were able to:

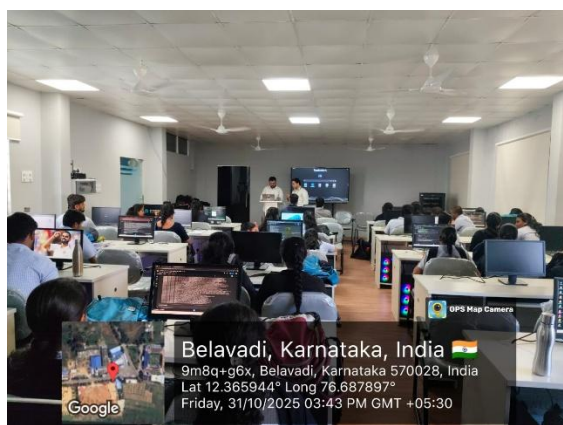
- Understand the difference between Generative AI and Agentic AI.
 - Identify how autonomous agents extend the capabilities of traditional AI systems.
 - Explore practical applications of AI in data science and automation.
 - Gain awareness of ethical and governance challenges in AI deployment.
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8. Conclusion

The workshop on Generative AI and Agentic AI proved to be an insightful and thought-provoking session.

Students gained valuable exposure to cutting-edge AI technologies and their real-world implications.

The session conducted by Mr. Dev Bhushan effectively bridged the gap between academic learning and industrial innovation, inspiring students to apply these concepts in future data science projects and research work.



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