



MGM's COLLEGE OF ENGINEERING, NANDED

Near Air-port, Hingoli Road, Nanded-431605.
Department of Computer Science and Engineering

[Co-curricular or Extra-curricular Activity]

Name of Activity: Technical Session on "Understanding AI and Building Agentic AI Applications from Scratch"

Prepared by: Dr. B. S. Kapre,
Ms. N. L. Pariyal, Ms. M. H. Khan

Date: 29th November 2025

Introduction:

The Department of Computer Science & Engineering, in collaboration with the Institute of Engineers (India) Students' Chapter, successfully organized a One-day Workshop on Technical Session on "Understanding AI and Building Agentic AI Applications from Scratch" on 29th November 2025. This session aimed to provide students with foundational and advanced knowledge of AI systems, autonomous agent-based architectures, and real-world AI applications through insights from industry experts.

Workshop Details:

- Date: 29th November 2025.
- Number of Participants: 60 students.
- Class: 2nd Year, CSE & AIML Department.
- Location: Remote Center Hall

Resource Person:

1. Mr. Atul Joshi

Principal Software Engineer, Infinera, Bangalore.

Expertise:

- Application Engineering & RISC-V.
- Silicon Software, Firmware, Embedded and SDK Development.
- C++11+, SerDes, Ethernet PHY technologies.



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- Data Science, Artificial Intelligence & Machine Learning.

2. Mr. Rohan Chandak

Program Director, IIT Bombay.

Expertise:

- AI applications in defense and emerging technologies.
- Leading niche R&D projects.
- Military technology innovation.
- Cutting-edge AI solutions for industrial problems.

Workshop Content:

Topics Covered:

1. Introduction to Artificial Intelligence

- Basics of AI, Machine Learning & modern applications
- Role of AI in emerging industry domains

2. Understanding Agentic AI Systems

- Autonomous agents and LLM-based agent frameworks
- Real-world examples of agentic applications

3. Building AI Applications from Scratch

- Software tools, frameworks & development pipeline
- Demonstration of AI workflow using practical examples

4. Real Industry Use Cases

- AI for embedded systems, defense technology & automation
- Innovation opportunities for engineering students

5. Interactive Q&A Session

- Project guidance
 - Career roadmap in AI & ML
 - RISC-V and embedded AI discussions
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Achievements:

Outcome of the Event:

The session successfully enhanced students' understanding of AI fundamentals, agentic architectures, and modern AI development techniques. Students gained:

- Practical exposure to industry-level AI workflows
- Clear insights into building intelligent agent-based applications
- Motivation to explore AI, ML, and RISC-V-based innovations
- Awareness of career opportunities in Artificial Intelligence and emerging tech domains

Relevance with Program Outcomes:

PO1 – Engineering Knowledge:

Students learned core AI engineering principles, algorithms, and modern tools used in industry.

PO2 – Problem Analysis:

The session emphasized identifying real-world problems and designing AI-driven solutions.

PO3 – Design/Development of Solutions:

Students understood how to build AI applications from scratch using systematic development workflows.

PO5 – Modern Tool Usage:

Exposure to current AI tools, frameworks, and agent-based architectures improved tool proficiency.

PO6 – Communication:

Students interacted with industry experts and enhanced their professional and technical communication.

PO7 – Life-long Learning:

Emerging AI trends encouraged students to pursue continuous learning and advanced skills.



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Feedback:

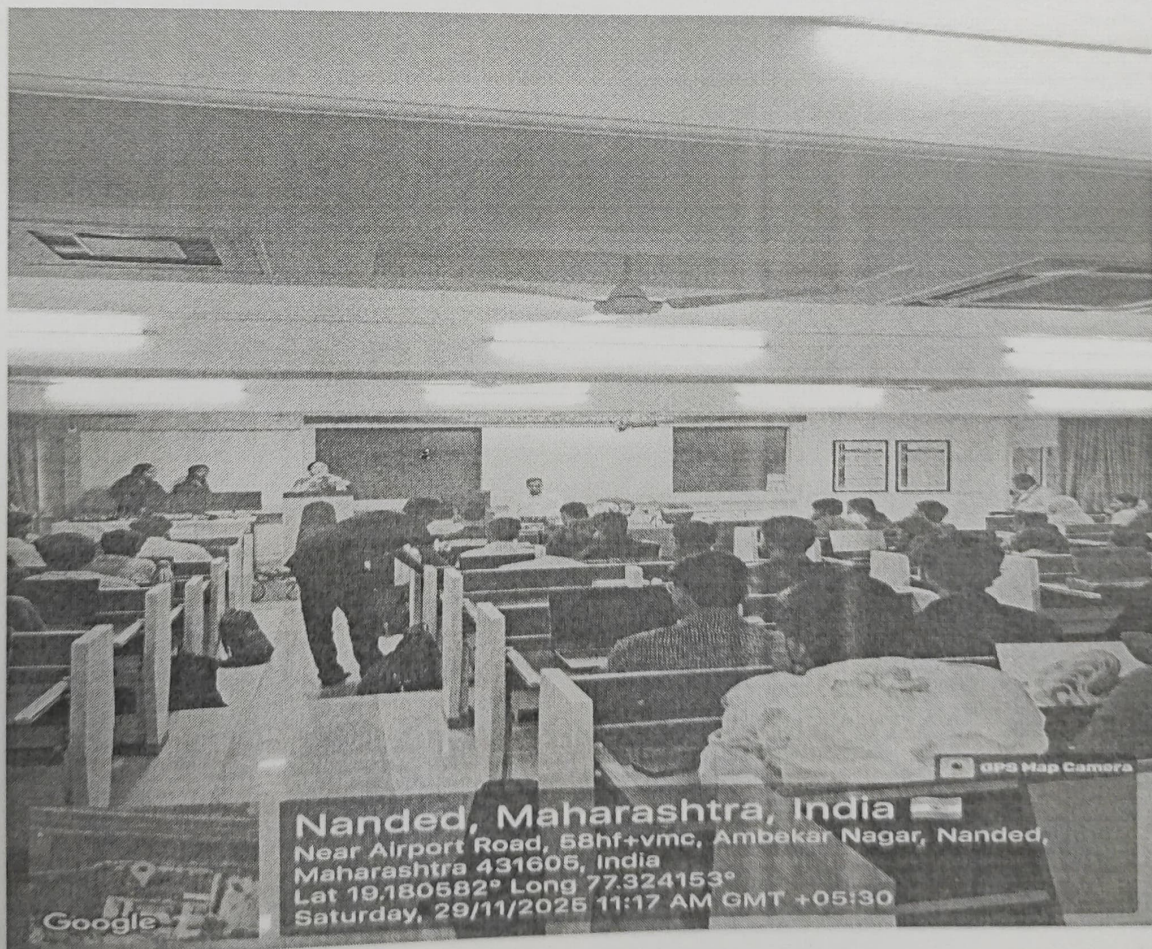
Positive Feedback:

- "The session helped us understand modern AI concepts in a simple and practical way."
- "Industry insights from both speakers were very valuable."
- "Agentic AI architecture explanation was very interesting."

Suggestions for Improvement:

- More hands-on activities could be added.
- A follow-up workshop on building a full AI project would be helpful.

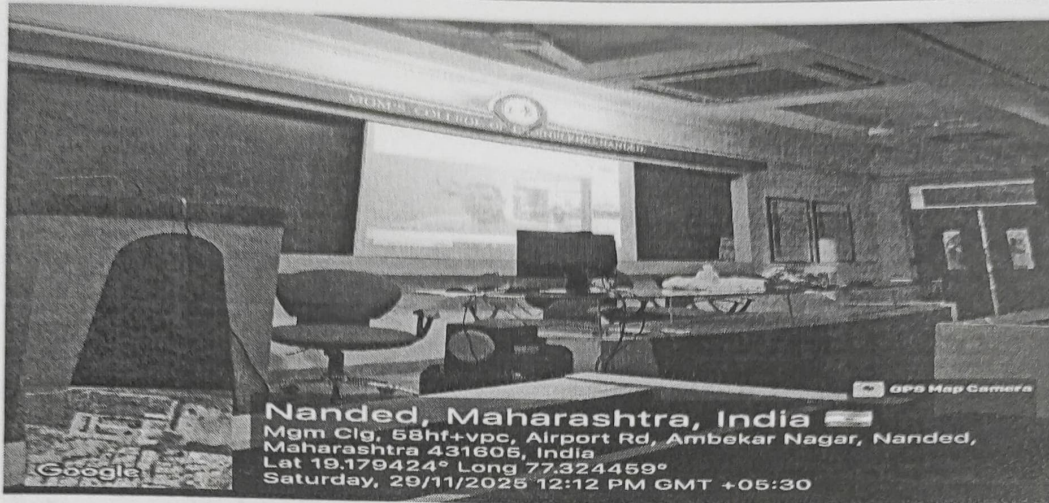
Attachments:





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Nanded, Maharashtra, India

Mgm Ctg, 58hf+vpc, Airport Rd, Ambekar Nagar, Nanded,
Maharashtra 431605, India
Lat 19.179424° Long 77.324459°
Saturday, 29/11/2025 12:12 PM GMT +05:30



Nanded, Maharashtra, India

Near Airport Road, 58hf+vmc, Ambekar Nagar, Nanded,
Maharashtra 431605, India
Lat 19.179624° Long 77.323905°
Saturday, 29/11/2025 12:09 PM GMT +05:30

Dr. B. S. Kapre

Ms. N. L. Pariyal

Ms. M. H. Khan

Event Co-ordinator

Dr. A. M. Rajurkar
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