

A Report on
“One Day Industrial Visit to IITM Research Park, Chennai”
Organized by Department of CSE (AI and ML)
on 22.07.2026



Report Submitted by: Mr. V. Sivaraman, Assistant Professor, Department of CSE (AI and ML)

Industry Visited: IIT Madras Research Park, Tharamani, Chennai

Participants: III-Year CSE (AI and ML) – 43 Students

Mode of Conduct: Offline

Report Received on 29.07.2026.

Introduction

As a part of the Memorandum of Understanding (MoU) signed between **Madanapalle Institute of Technology & Science (MITS) Deemed to be University** and **HCL GUVI**, the III B.Tech students of Artificial Intelligence and Machine Learning (AI and ML) undertook an industrial visit to **IITM Research Park, Chennai**, on 22.07.2026. The visit was organized to provide students with practical exposure to the startup ecosystem, emerging technologies, industry practices, and career opportunities in the field of Artificial Intelligence and Information Technology. The visit was coordinated under the guidance of faculty members **Mr. V. Sivaraman** and **Ms. Nighitha Varghese** who accompanied the students throughout the programme.

About IITM Research Park

IITM Research Park is a prominent research and innovation ecosystem that promotes collaboration between academia, industry, startups, investors, and entrepreneurs. Its primary objective is to convert innovative ideas and research outcomes into practical solutions, products, and successful enterprises.

The Research Park provides an environment where:

- Academic research can be transformed into commercial products.
- Startups can receive incubation and mentoring support.
- Industry and academia can collaborate on research and development.
- Students and researchers can explore entrepreneurship opportunities.
- Deep-tech innovations can be developed and commercialized.
- Investors can connect with technology-based startups.

The IITM Incubation Cell, operating within this ecosystem, supports technology-driven startups and entrepreneurs. The displays at the Research Park highlighted a large portfolio of startups working in diverse sectors. The first session was delivered by **Ms. Sai Sunitha G, Program Coordinator, HCL GUVI**. She introduced the students to the activities and role of HCL GUVI in technology skill development.

She provided valuable insights into:

- Current trends in the Information Technology industry
- Emerging technologies
- Skills expected by employers
- Career opportunities in the IT sector
- Importance of continuous skill development
- The changing requirements of the job market

The session helped students understand the importance of developing practical and industry-relevant skills in addition to academic knowledge.

Technical Session on Emerging AI Technologies

The technical session was conducted by **Mr. Ebinesh, Software Engineer, HCL GUVI**. The session focused on several emerging technologies in Artificial Intelligence and modern software development.

The students were introduced to:

- **Model Context Protocol (MCP):** A modern protocol that enables AI models to interact with external tools, data sources, and applications in a structured manner.
- **Agent-to-Agent (A2A) Communication:** The concept of communication and collaboration between multiple intelligent AI agents to perform complex tasks.
- **Agent Communication Protocol (ACP):** The role of standardized communication mechanisms in enabling interaction between AI agents and intelligent systems.
- **Agent Gateway Protocol (AGP):** The importance of gateway-based communication and coordination among AI agents and external services.

These concepts provided students with an understanding of the emerging AI agent ecosystem and agentic AI systems.

IITM Research Park Initiatives Observed

- Deep-Tech Startup Incubation
- Academic–Industry Collaboration
- Startup Incubation and Entrepreneurship
- Investor and Venture Capital Network

Startups and Technologies Observed

- Mindgrove
- Uniphore
- Ather Energy
- Agnikul Cosmos
- Stellapps
- HyperVerge
- Planys Technologies
- Neomotion
- QNu Labs
- PhycoSol / PhycoAir

Opportunities for Students

The industrial visit provided students with valuable awareness about several career and professional opportunities.

Internship Opportunities

Students can explore internships in:

- Artificial Intelligence
- Machine Learning
- Data Science
- Software Development
- IoT
- Robotics
- Cybersecurity
- Embedded Systems
- Semiconductor Technology
- Quantum Computing

Research Opportunities

Students can pursue research in emerging areas such as:

- Deep Learning
- Computer Vision
- Natural Language Processing
- Generative AI
- Autonomous Systems
- Smart Healthcare
- Sustainable Technology
- Semiconductor Design
- Quantum Computing
- Cybersecurity

Entrepreneurship Opportunities

The startup ecosystem demonstrated that students can become:

- Entrepreneurs
- Startup founders
- Technology innovators
- Product developers

Students can convert their academic projects and research ideas into innovative products and startup ventures.

Industry–Academia Collaboration

Students can benefit from:

- Industry-sponsored projects
- Internships
- Hackathons
- Research projects
- Startup mentoring
- Innovation challenges
- Placement opportunities

Career Opportunities

The visit helped students understand the wide range of careers available beyond traditional software development.

Possible career areas include:

- AI Engineer
- Machine Learning Engineer
- Data Scientist
- Computer Vision Engineer
- Robotics Engineer
- IoT Engineer
- Cybersecurity Engineer
- Embedded Systems Engineer
- Semiconductor Engineer
- Research Scientist
- Startup Founder

Learning Outcomes

After completing the industrial visit, students were able to:

1. Understand the role of research parks and incubation centres in promoting innovation and entrepreneurship.
2. Gain awareness of the process of converting academic research into practical products and commercial solutions.
3. Understand the real-world applications of Artificial Intelligence, Machine Learning, IoT, Robotics, Semiconductors, Quantum Computing, and Blockchain.
4. Recognize the importance of interdisciplinary collaboration in developing deep-tech products.
5. Understand the startup ecosystem, including incubation, mentoring, investment, product development, and commercialization.

Sustainable Development Goals (SDGs) Addressed

SDG 4: Quality Education

SDG 8: Decent Work and Economic Growth

SDG 9: Industry, Innovation and Infrastructure

SDG 11: Sustainable Cities and Communities

SDG 12: Responsible Consumption and Production