



# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

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**DEPARTMENT OF CSE(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)**

## INDUSTRIAL VISIT REPORT

**Department:** CSE(Artificial Intelligence and Machine Learning)

**Year:** III Year

**Date of Visit:** 15th – 18th October 2025

**Places Visited:** IIT Madras Chennai

### 1. Introduction

As part of our academic curriculum, the Department of CSE(Artificial Intelligence and Machine Learning) organized an Industrial Visit and Educational Excursion to IIT Madras, Chennai on 15<sup>th</sup> October 2025. The primary aim of this visit was Students gained insights into advanced research areas in CSE(Artificial Intelligence and Machine Learning), including Quantum Computing, and Data Science.

### 2. Objective of the Visit

The objectives of the industrial visit were:

- ❖ To expose students to the cutting-edge research and technological advancements in the field of CSE(Artificial Intelligence and Machine Learning).
- ❖ To understand the practical implementation of CSE(Artificial Intelligence and Machine Learning).
- ❖ To interact with IIT Madras faculty, researchers, and students to learn about their ongoing projects, research culture, and innovative methodologies.
- ❖ To observe modern computing infrastructure, high-performance systems, and advanced software development environments used in research.
- ❖ To motivate students to pursue higher studies, research, and innovation in reputed institutions like IITs and other global research centers.
- ❖ To bridge the gap between classroom learning and real-world applications in computing technologies.

### 3. About IIT Madras

**Name:** Indian Institute of Technology Madras (IITM)

**Location:** Chennai, Tamil Nadu

**Established:** 1959

**Focus Areas:** Advanced Research, Engineering Education, and Innovation

At IIT Madras, we visited the Computer Science and Engineering Department, Robotics Lab, and AI Research Centre. Professors and research scholars demonstrated ongoing projects in areas such as machine learning, quantum computing, and sustainable AI systems. Students were briefed on research methodologies, innovation labs, and startup incubation facilities at the IITM Research Park.



**Dr. Madhu Mutyam**, Head of the Department of Computer Science and Engineering, IIT Madras, interacted with the students and offered valuable insights into the diverse research opportunities available within IIT Madras and in reputed institutions and industries outside the institute. He also guided the students on potential career paths and higher education prospects after graduation.



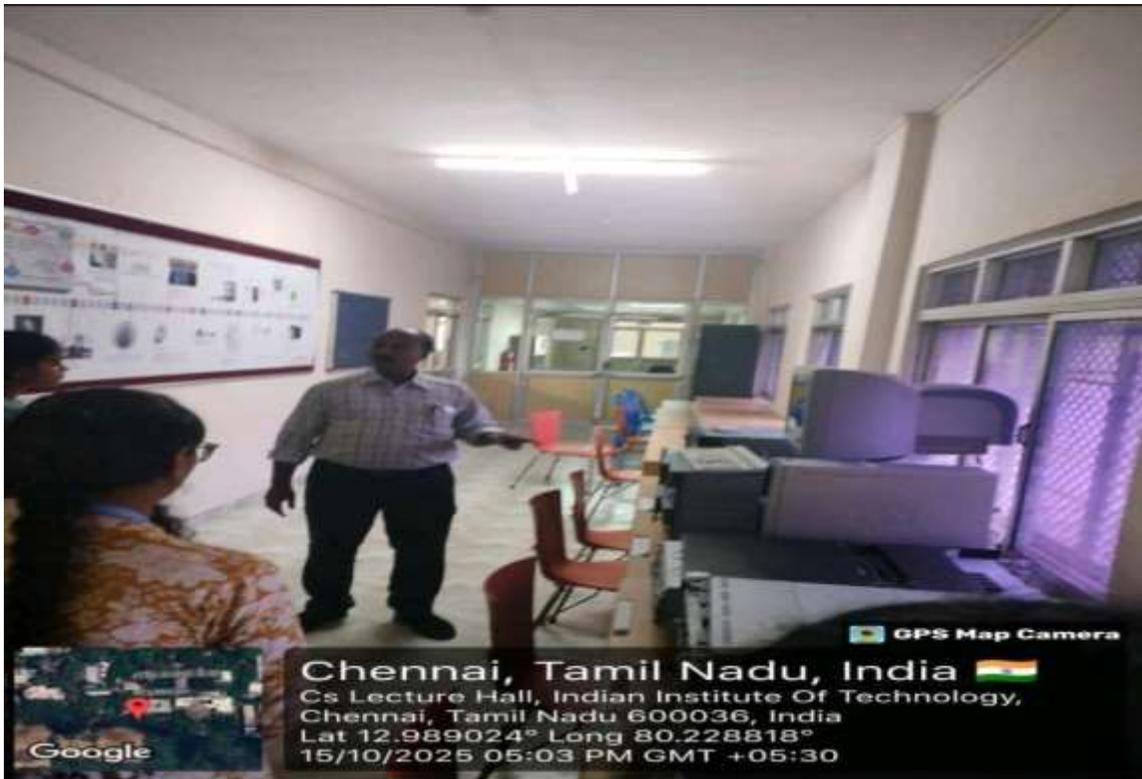
**Dr. P. Sreenivasa Kumar, Professor, Department of Computer Science and Engineering, IIT Madras,** interacted with the students and guided them through some of the advanced research laboratories. He explained how IIT Madras students actively participate in research activities and plan their academic and professional careers. He also provided valuable guidance and advice to the visiting students regarding research orientation and career development.



Students of CSE(Artificial Intelligence and Machine Learning) department engaged in an interactive session with Dr. P. Sreenivasa Kumar and research scholars, gaining exposure to ongoing projects at IIT Madras.



**Dr. P. Sreenivasa Kumar** sharing valuable insights with visiting CSE(Artificial Intelligence and Machine Learning) students during the industrial visit.



Students of CSE(Artificial Intelligence and Machine Learning) visiting the High Computing Laboratory, gaining insights into large-scale data processing and parallel computing systems.



A research scholar at IIT Madras explaining an innovative project to students during the industrial visit.

#### 4. Learning Outcomes

- ❖ Exposure to high-end computing labs and research facilities enhanced students' understanding of modern tools and frameworks.
- ❖ Interaction with IIT Madras professors and researchers helped students explore new career and research opportunities in the computing domain.
- ❖ Students understood how theoretical concepts such as algorithms, programming paradigms, and system design are applied in real-world research.
- ❖ The visit fostered a spirit of innovation, problem-solving, and lifelong learning among CSE students.



## 5. Conclusion

The industrial visit to IIT Madras an enriching experience that bridged the gap between classroom learning and practical application. It gave us a clear perspective on how research and technology transform into real-world solutions. We are thankful for the opportunity to interact with professionals and researchers.

## 6. Acknowledgement

We express our heartfelt gratitude to:

- The Principal Dr. K. Appa Rao, for granting permission and support.
- Head of the Department, Dr. S. Jayaprada, CSE(Artificial Intelligence and Machine Learning), for guidance and encouragement.
- Faculty Coordinators, for organizing and accompanying us.
- Authorities of IIT Madras, for their hospitality and valuable sessions.

We are thankful to all who contributed to making this visit a great success.

Submitted by:

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