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Industrial Visit to Microsoft Ferns

The department of **Computer Science and Engineering** organised an **Industrial Visit** to **Microsoft Ferns, Kadubeesanahalli** for 7th Semester students on **30-08-2025**.

The visit began with a short inaugural session, welcoming the participants and setting the context for the day's activities.

The event featured four interactive technical sessions delivered by eminent speakers:

1. **Mr. Manish Jhanwar** – Technology Evangelist. Worked at Walmart & Samsung Research
2. **Mr. Pruthvi S** – Co Founder of Yatri Cloud Community, Chief Strategic Officer of AINext Gen
3. **Mrs. Kaustubha Shravan** – Solution Architect, Microsoft
4. **Mr. Akhil M** – Event Coordination Lead at AINextGen Community

The sessions covered a wide range of topics including operating system development, data structures, evolution of AI, practical demonstrations of AI agents, and lightweight ML for embedded devices.

Students actively participated in the discussions, especially during the demonstrations in Google Colab, and showed great enthusiasm in understanding the real-world applications of the concepts they had learned in classrooms.

The visit successfully combined technical depth, practical exposure, and engaging interactions, making it a memorable and highly beneficial learning experience for the students.

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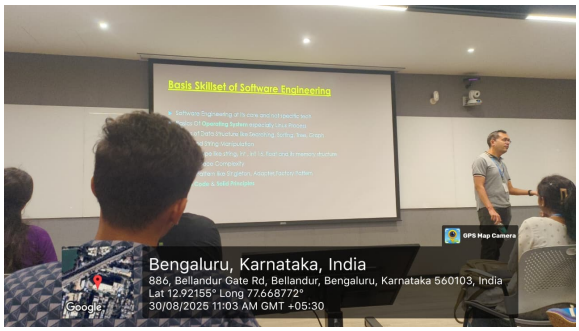
Objectives of the Event

- To provide students with practical exposure to the corporate environment.
- To understand the role of software engineers in real-world problem-solving.
- To explore the latest advancements in Artificial Intelligence, Machine Learning, and Embedded Systems.
- To bridge the gap between classroom learning and industry practices.

Event Overview

The industrial visit commenced with the first session by Mr. Manish Jhanwar on "What It Takes to be a True Software Engineer". In this session, he explained the fundamentals of developing an operating system and encouraged students to explore its coding aspects in depth. He highlighted the importance of data structures in the context of Large Language Models (LLMs) and engaged the students in discussions on permutations and combinations. He also emphasised the role of sorting, searching, trees, and graphs as essential building blocks for efficient software development, motivating students to strengthen their problem-solving skills.



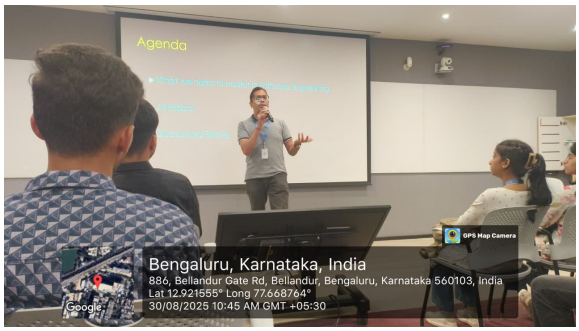


Figure 1: Mr. Manish Jhanwar's session on "What It Takes to be a True Software Engineer"

The second session was delivered by Mr. Pruthvi S, who spoke on "Latest Trends in AI Till Now". He presented an engaging overview of the evolution of AI from the 1960s to 2025, creatively using a fictional AI agent named "Chintu" that he himself developed. Through this unique approach, he explained how machine learning has progressed over time to modern AI agent-based learning, giving students a clear perspective on how AI has matured and where it is heading.

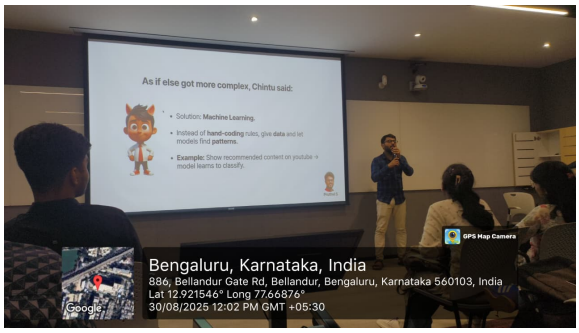


Figure 2: Mr. Pruthvi's session on "Latest Trends in AI Till Now"

Following this, Mrs. Kaustubha Shravan conducted a session on "Getting Started with AI Agents". She introduced students to the practical side of artificial intelligence by demonstrating how to create an AI agent using Google Colab. The hands-on session allowed students to directly experience the process of building and training an AI agent, helping them connect theoretical knowledge with real-world implementation.

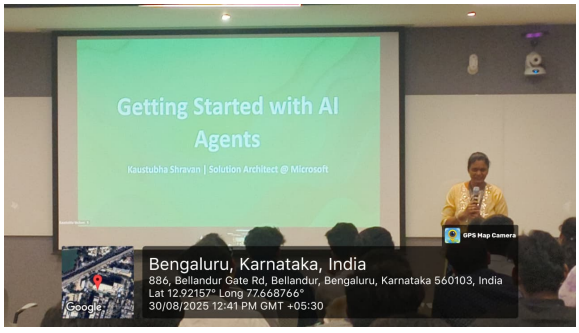


Figure 3: Mrs. Kaustubha Shravan's session on "Getting Started with AI Agents"

The final session of the visit was delivered by Mr. Akhil M, who spoke on "Tiny ML." He introduced students to the fascinating concept of Tiny Machine Learning, which involves deploying lightweight ML algorithms on resource-constrained devices such as smartwatches and IoT systems. He explained the growing importance of Tiny ML in the modern technological landscape and its potential for widespread applications in the future.

At the end of the sessions, a formal vote of thanks was delivered by Prof. Muflih Ali K P, acknowledging the efforts of all the speakers and organisers, and expressing grat-

itude on behalf of the students and faculty. As a token of appreciation, Prof. Navya K S presented gifts to all four speakers, marking the conclusion of the industrial visit on a gracious and memorable note.

(a) Mr. Manish Jhanwar

(b) Mr. Pruthvi S

(a) Mrs. Kaustubha Shravan

(b) Mr. Akhil M

Figure 5: Prof. Navya K S presenting gifts to all four speakers as a token of appreciation

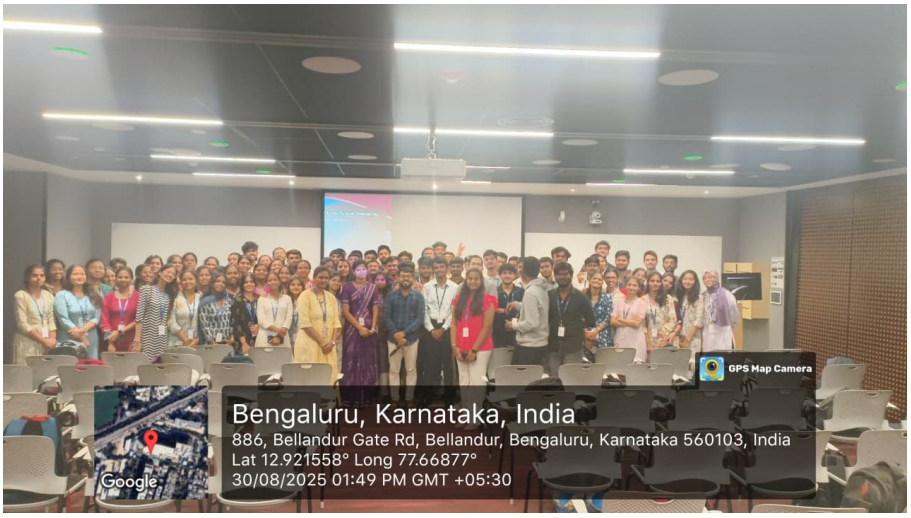


Figure 6: Group photo of students, faculty, and industry speakers

Outcomes and Impact

- Students gained practical exposure to operating systems, data structures, and algorithms.
- Enhanced understanding of the evolution and current trends in AI.
- Hands-on experience in creating AI agents using Google Colab.
- Awareness of Tiny ML applications in IoT and embedded devices.
- Improved audience engagement and critical thinking through interactive sessions.
- Motivation to take up innovative, industry-relevant projects.

Conclusions

The industrial visit to Microsoft Ferns, Bangalore, provided students with valuable insights into both core computer science concepts and emerging AI technologies. The sessions were engaging, informative, and included hands-on demonstrations, bridging the gap between theory and practice. Students gained practical knowledge, industry exposure, and motivation to pursue innovative projects in AI, ML, and embedded systems. Overall, the visit was highly enriching and inspiring, preparing students to become competent and industry-ready professionals.

Report by: Prof. Muflih Ali K P

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