



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

Belawadi, Srirangapatna Taluk, Mandya-571477

CSE-Data Science



Industrial Visit Report

Date of Visit: 29/11/2025

Venue: Vigyanlabs Innovations Private Limited, Plot No 250, JCK Industrial Park, Hebbal, Belagola, Post, Mysuru, 570016

Attendees: 3rd semester Data Science students, Staff coordinators

1. Introduction

An industrial visit to VigyanLabs Innovations Pvt. Ltd., Mysuru, was organized for the students of Data Science with the objective of providing real-time exposure to green computing, energy-efficient technologies, and data center optimization practices.

2. About VigyanLabs

VigyanLabs Innovations, founded in 2008 and headquartered in Mysuru, specializes in energy optimization and sustainable IT solutions. Its flagship product, IPM+, is widely used to reduce energy consumption in IT infrastructures.

3. Objectives of the Visit

- Understand real-time industrial practices in energy optimization.
- Observe sustainable technologies used in modern data centers.
- Gain knowledge about R&D activities in green computing.
- Understand industry expectations and required skills.

4. Overview of Sessions / Activities



The visit aimed to help students understand modern trends in green computing, energy optimization, and data-center efficiency solutions. Upon arrival, the team at Vigyanlabs welcomed the students and gave an introductory presentation on the company's mission of developing sustainable IT solutions that reduce power consumption and carbon footprint in large-scale computing environments. Engineers explained how today's data centers face challenges such as high energy usage, inefficient cooling, and rapidly increasing heat loads due to continuous server operation.

Students learned how Vigyanlabs addresses these issues through their patented products such as IntelliDemand and IntelliBreeze, which use artificial intelligence, predictive analytics, and sensor-based monitoring to automatically adjust server power consumption and optimize cooling systems. The technical team demonstrated how CPU workloads are analyzed in real time and how power levels are dynamically scaled to match the actual computing demand, reducing energy wastage without affecting performance. Students were taken to the laboratory section where they observed server racks, cooling setups, embedded controllers, and various environmental sensors used to track heat, humidity, and airflow.

Live dashboards displayed power consumption trends, thermal maps, and system efficiency indicators, allowing students to visualize the impact of different workloads on power usage. The interaction session with engineers allowed students to learn about the practical applications of concepts such as IoT, embedded systems, machine learning models, and cloud monitoring platforms. The visit helped students understand the importance of sustainable computing, industrial design processes, and the emerging career opportunities in green technology and data-center engineering. Overall, the industrial visit to Vigyanlabs was highly informative and provided meaningful insights that connected classroom knowledge with real-world innovation, motivating students to explore advanced technologies and consider future projects in the field of energy-efficient computing.

5. Outcomes of the Visit

- Enhanced knowledge on green computing.
- Practical exposure to energy-aware tools.
- Motivation for research and innovation.
- Awareness of eco-friendly IT solutions.

6. Feedback and Conclusion

Students expressed that the visit was highly informative, interactive, and aligned with academic learning. The industrial visit to VigyanLabs, Mysuru, provided valuable exposure to energy-efficient technologies and industry practices. We thank VigyanLabs for their hospitality and support.

Coordinator's Signature
Prof. Deepthi N , Prof Harshitha B K

HOD
Dr Pushpa D