

DEPARTMENT OF CSE - DATA SCIENCE

IoT-Driven Automation

Venue: Room C 217

Time - 10:00 AM to 1:00 PM



On 7^{th,} May 2025, the Department of Computer Science and Engineering (Data Science), hosted a workshop on **"IoT-Driven Automation".** The Department of Computer Science and Engineering (Data Science) organized an expert talk on **IoT-Driven Automation.** The event aimed to bridge the gap between theoretical knowledge and practical implementation by providing students with hands-on learning experience in the rapidly growing field of the Internet of Things (IoT) and Automation Technologies.

The workshop was led by two distinguished speakers from **Karunadu Technologies Pvt. Ltd.** – Mr. Mahesh Deginal, B.E., M.Tech, Managing Director and CEO, and Mr. Harish N, B.E., M.Tech (Ph.D), the Chief Technology Officer and Co-Founder. Both speakers brought with them a wealth of industry knowledge and years of experience in key technological domains such as IoT, Embedded Systems, Robotic Engineering, and Generative AI.

Their vision focuses on empowering unskilled individuals by equipping them with essential knowledge, skills, and technical competencies in Information Technology and Embedded Engineering. Their commitment to innovation and skill development has been a driving force behind the success of Karunadu Technologies since its inception in 2017 under the *Make in India* initiative.



During the session, the students were introduced to the fundamental concepts of IoT and its role in automation. The speakers explained how cloud storage is used to collect, store, and process data in IoT applications. A significant highlight of the workshop was the hands-on experience where students learned

how to upload sensor data to the cloud using **Arduino** microcontrollers. This practical session allowed students to understand the data flow from physical sensors to cloud platforms and gain familiarity with basic IoT system integration.

The workshop was not only technically enriching but also motivational, as the speakers shared real-world examples of product development, including the design and creation of FPGA and IoT development boards within their organization. These innovations have empowered many individuals and contributed to technological advancement in the embedded systems sector.



The workshop concluded with an interactive session, where students expressed their appreciation for the clarity, practical relevance, and real-time demonstrations provided by the resource persons. The event successfully achieved the objective of enhancing students' knowledge and sparking interest in the fields of IoT and Automation.



Overall, the IoT-Driven Automation workshop was a valuable experience that enriched the academic learning of the students and provided them with insight into the evolving trends and technologies shaping the future of data science and embedded systems.

Faculty Coordinator

HoD

Prof. Swati Sehgal

Dr. BASAVARAJU SWATHI