

Department of CSE–IoT (Internet of Things)

Event :- Three Days Workshop on “IoT Meets AI – The Future of Connected Intelligence”

Dates: 18th, 19th, and 20th September 2025

Time: 10:00 AM

Venue: IoT Laboratory, Block-II, RCEE Campus

Resource Person:- Ms. Udaya Sri, AI & ML Developer, Sweya Information Technology, Vizag

Convenor:- Mr. Narendra Bavisetti, HOD – CSE (IoT, RACE)

Co coordinators:- Mr. Ch. Kishore Babu and Mr. VNSR. Murthy

Introduction

The Department of **Computer Science and Engineering – Internet of Things (CSE–IoT)** at **Ramachandra College of Engineering (RCEE)** organized a three-day hands-on workshop on “IoT Meets AI – The Future of Connected Intelligence ” from 18th to 20th September 2025.

The primary objective of the workshop was to bridge the gap between emerging technologies by exploring how Artificial Intelligence (AI) and the Internet of Things (IoT) can integrate to create smarter, more autonomous, and efficient systems. The workshop was aimed at providing students with practical insights into the latest advancements in AI-driven IoT applications, data analytics, and smart device integration.

The event was conducted under the guidance of **Mr. Narendra Bavisetti**, HOD – CSE (IoT, RACE), with the support of the faculty coordinators and active participation from students of CSE–IoT and allied branches.

Objectives of the Workshop

The key objectives of organizing this workshop were:

- To provide students with a foundational understanding of the integration of IoT and AI technologies.
- To introduce real-world applications of AI in IoT systems such as smart cities, healthcare, and agriculture.
- To offer hands-on exposure to machine learning models and sensor-based data analysis.
- To enhance students' technical and problem-solving skills relevant to modern industry needs.
- To motivate students to pursue research and innovation in intelligent automation systems.

Workshop Details and Activities

The workshop was inaugurated on 18th September 2025 at 10:00 AM by **Mr. Narendra Bavisetti**, HOD–CSE (IoT, RACE)**, in the presence of faculty members and students. The resource person, **Ms. Udaya Sri**, an AI & ML Developer from Sweya Information Technology, Vizag, was introduced and welcomed by the coordinators **Mr. Ch. Kishore Babu** and **Mr. VNSR. Murthy**.

Day 1 – Introduction to IoT and AI

The first day began with an overview of IoT fundamentals, covering concepts such as sensor networks, data collection, cloud integration, and automation. Ms. Udaya Sri explained how AI enhances IoT through intelligent data analysis and predictive modelling.

Students were introduced to Python programming for IoT and data pre-processing techniques used in machine learning. Practical demonstrations included sensor-based data collection and visualization using open-source platforms.

Day 2 – AI Techniques for IoT

On the second day, sessions focused on machine learning algorithms like Linear Regression, Decision Trees, and K-Means Clustering, and their use in IoT applications.

Students participated in a hands-on lab session, where they trained simple models using IoT datasets to predict temperature and humidity variations. The resource person highlighted the use of AI-driven decision-making in smart homes, healthcare monitoring, and industrial IoT systems.

Day 3 – Building Intelligent IoT Applications

The final day centered on the integration of AI models into IoT devices. Students learned how to deploy trained models on edge devices such as Raspberry Pi and Arduino. A mini-project activity was conducted in which participants designed simple prototypes like smart irrigation systems and intelligent health monitoring setups.

The day concluded with an interactive Q&A session, followed by feedback collection and a certificate distribution ceremony.

Outcomes and Learning

The workshop was highly productive and provided significant learning experiences. Some key outcomes include:

- Enhanced understanding of AI–IoT integration and its industrial relevance.
- Practical exposure to real-time data analysis, model training, and edge deployment.
- Development of teamwork, innovation, and design thinking among students.
- Motivation to explore research and project development in smart systems and automation.
- Strengthened collaboration between academia and industry experts.
- Students appreciated the resource person’s clear explanations, practical demonstrations, and the real-world applications discussed during the sessions.

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DEPARTMENT OF CSE-IOT

IOT MEETS AI - THE FUTURE OF CONNECTED INTELLIGENCE

BY: MS.UDAYA SRI
SWEYA INFORMATION TECHNOLOGY
VIZAG

REVOIOT

3 DAY'S WORKSHOP

ON: 18,19,20
sep,2025

web:www.rcee.ac.in | Email: rce_elr@yahoo.com

Feedback and Observations

Many requested that similar workshops be organized regularly to enhance the department's technical ecosystem.

Feedback was collected from all participants, and responses were overwhelmingly positive. Students found the sessions highly interactive, technically rich, and aligned with the latest industry trends Based projects.

Faculty members observed improved student enthusiasm toward AI, ML, and IoT-

The resource person, **Ms. Udaya Sri**, praised the college for its proactive approach in blending new technologies with academic learning and expressed her willingness to collaborate in future research initiatives.

Conclusion

The Three Days Workshop on “IoT Meets AI – The Future of Connected Intelligence” was a resounding success. It effectively combined theoretical knowledge with practical application, equipping students with essential skills for the evolving technological landscape.

The Department of CSE–IoT at Ramachandra College of Engineering once again demonstrated its commitment to nurturing innovation, technical expertise, and social responsibility among its students. The event set a benchmark for future workshops and collaborations with industry experts.

Acknowledgement

The Department of CSE–IoT extends heartfelt gratitude to:
Dr. Muralidhar Rao, Principal, RCEE, for constant encouragement and support.

Mr. Narendra Bavisetti, HOD–CSE (IoT, RACE), for his guidance and motivation.

Ms. Udaya Sri, Resource Person, for conducting an engaging and informative session.

All faculty coordinators and student volunteers for their teamwork and dedication.

HoD

Dean-Academic

Principal