



J.B. INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Accredited by NBA&NAAC, Approved by AICTE & Permanently Affiliated to JNTU H Hyderabad)
Yenkapally (Vi), Moinabad (M), P.O. Himayat Nagar, RR District, Hyderabad 500075

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Expert Lecture on Machine Learning for IOT Applications

Date 21/03/2025

CIRCULAR

This is to inform all the III&IV Year students that the Department of Computer Science and Engineering, JBIET is organizing a Expert Lecture on "**Machine Learning for IOT Applications**" on **28/03/2025**. All the students are here by informed to utilize this opportunity and must attend the session.



HOD-CSE
Head of the Department
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Yenkapally, Moinabad Mandal
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Expert Lecture

on

Machine Learning for IOT Applications

Introduction

A expert lecture on **Machine Learning for IOT Applications** was organized on 28/03/2025 by the **Department of Computer Science and Engineering** as part of its academic enrichment activities. The session was delivered by **Dr.M.Venkata Krishna Reddy** Assistant Professorfrom CBIT Gandipet, Hyderabad, to provide students with in-depth knowledge about the convergence of two transformative technologies: the Internet of Things (IoT) and Machine Learning (ML). The objective of the lecture was to expose students to the latest developments, challenges, and opportunities in applying ML techniques to IoT-enabled systems.

- Topic:**Machine Learning for IOT Applications
- Date:**28/03/2025
- Speaker:**Dr.M.Venkata Krishna ReddyAssistant Professorfrom CBIT Gandipet,Hyderabad
- No of Participants:**85 Students

1. Overview of IoT and Machine Learning

- The speaker began with a clear introduction to IoT, its ecosystem, and the growing significance of connected devices in everyday life.
- He/she highlighted how machine learning empowers IoT systems by enabling devices to learn from data, recognize patterns, and make intelligent decisions.

2. Applications of Machine Learning in IoT

- **Smart Homes & Cities:** Energy optimization, traffic management, and smart surveillance.
- **Healthcare:** Remote patient monitoring, disease prediction, and wearable device intelligence.
- **Industry 4.0:** Predictive maintenance, supply chain optimization, and automated quality checks.
- **Agriculture:** Precision farming, crop disease detection, and resource management.

3. Techniques and Tools Discussed

- Supervised, unsupervised, and reinforcement learning approaches in IoT systems.
- Use of lightweight ML algorithms suitable for IoT devices with limited computational power.
- Introduction to tools and platforms like TensorFlow Lite, Edge AI, and cloud-based ML integration.

4. Challenges in ML for IoT

- Data security and privacy concerns.
- Scalability and handling large volumes of streaming data.
- Balancing accuracy and efficiency on resource-constrained IoT devices.

5. Future Trends

- Edge computing and on-device learning.
- AIoT (Artificial Intelligence + IoT) as a driver of next-generation smart applications.
- Integration of 5G technology for real-time decision-making.

Outcome of the Lecture

- Students gained **knowledge of integrating Machine Learning with IoT** for building intelligent systems.
- Understood **real-world applications** such as smart cities, healthcare, agriculture, and industry automation

Conclusion

The guest lecture on “**Machine Learning for IoT Applications**” was a great success. It provided participants with a deeper understanding of how ML enhances IoT systems and prepares them for futuristic innovations. The lecture broadened students’ perspectives on interdisciplinary applications and motivated them to explore projects and research in this dynamic area. T

The department expressed gratitude to the resource person for sharing valuable insights and to all participants for making the event fruitful.

Photos

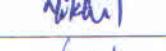
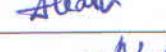


Fig-1 Dr.M.Venkata Krishna Reddy is delivering the Session to the students



Fig-2 Dr.M.Venkata Krishna Reddy is delivering the Session to the students.

ATTENANCE

Sl.No.	Roll No.	Name of the Student	Signature
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4	23671A0504	B KARTHIK REDDY	
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6	23671A0506	BADDURI ADITHYA	
7	23671A0507	BAGARI NIKHIL	
8	23671A0508	BAKKANI VAISHNAVI	
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12	23671A0512	BOJJA AKSHITH	
13	23671A0513	BOLGAM MAHESH BABU	
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15	23671A0515	CHENNARAM BHARATHSIMHA REDDY	
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26	23671A0526	PANTAM UDAY KIRAN YADAV	Uday
27	23671A0527	KURNAPALLY VAISHNAV	Vaishnav
28	23671A0528	M PRASHANTH KUMAR	Prashanth
29	23671A0529	MADHAVANENI SRIJANITH	Vani
30	23671A0530	MANDAGIRI VANAJA	Vanaja
31	23671A0531	MANGELA SHIVAGANESH	Sey
32	23671A0532	MOHAMMED AFTAB JUNAID	Aftab
33	23671A0533	MUDAVATH MUKESH	Mukesh
34	23671A0534	MUNJALA SIRIHASINI	Sey
35	23671A0535	MYAKALA RETHWIK	Rethwik
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37	23671A0537	NENAVATH PAVAN KUMAR	Pavan
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40	23671A0540	PULICHERI SINDHUJA	Sindhuja
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52	23671A0552	THENMATAM KALYANA CHARYULU	Kalyan
53	23671A0553	DANNARAM ANJI REDDY	Saihejoo
54	23671A0554	YANAGANDULA SAITEJA	Sai
55	23671A0555	BILLAPATI SRIKANTH REDDY	Srikant
56	23671A0556	SHAKKARAGARI MANOJ REDDY	ManojReddy
57	23671A0557	VASANTHA SWATHIKA	Swathika
58	23671A0558	ADARSH	Adarsh
59	23671A0559	KUNURU NIKHIL	Nikhil
60	23671A0560	KONDA RAJESH REDDY	Rajesh
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62	22671A0502	ANURADHA SAHOO	Sahoo
63	22671A0503	ASADI HARI PRASAD	Asadi Prasad
64	22671A0504	B AKHIL SINGH	Akhil
65	22671A0505	BOJJANABOINA VEERA AKUL RAGHAV	Akul
66	22671A0506	BURRA SAI VARDHAN	Vardhan
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69	22671A0509	CHIPPALAPALLI SOWMYA	Sowmya
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