



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
Computer Science and Engineering
J B Institute of Engg. & Technology
Yenkapally, Moinabad Mandal
Hyderabad-75



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

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 Professor from 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 Reddy Assistant Professor from 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
1	23671A0501	AAKAM ROHITH	Rohith
2	23671A0502	ANAND RATHOD	Anand
3	23671A0503	ANUMALLA RAHUL	Rahul
4	23671A0504	B KARTHIK REDDY	Karthik
5	23671A0505	BACHU RAHUL	Bachu
6	23671A0506	BADDURI ADITHYA	Adithya
7	23671A0507	BAGARI NIKHIL	Nikhil
8	23671A0508	BAKKANI VAISHNAVI	Vaishnavi
9	23671A0509	BASHABOINA SWATHI	Swathi
10	23671A0510	BHAVANI GUMDAL	Bhavani
11	23671A0511	BHUKYA AKASH	Akash
12	23671A0512	BOJJA AKSHITH	Akshith
13	23671A0513	BOLGAM MAHESH BABU	Mahesh Babu
14	23671A0514	CH PRADEEP	Pradeep
15	23671A0515	CHENNARAM BHARATHSIMHA REDDY	Bharathsimha
16	23671A0516	DARPALLY OMKAR REDDY	Omkar
17	23671A0517	DASARI JATHIN KUMAR	Jathin
18	23671A0518	DHANAVATH SRI NAIK	Sri Naik
19	23671A0519	DHARAM ABHISHEK	Abhishek
20	23671A0520	GUDLA AKSHAYA	Akshaya
21	23671A0521	J SAI VAMSHI VARDHAN	Vamshi
22	23671A0522	K SHIVA	K. Shiva

Sl.No.	Roll No.	Name of the Student	Signature
23	23671A0523	K.NISHANTH	Nishanth
24	23671A0524	KAMARAJU SHASHI KIRAN	Shashi
25	23671A0525	KAMMARI NITHISH KUMAR	Nithish Kumar
26	23671A0526	PANTAM UDAY KIRAN YADAV	Uday
27	23671A0527	KURNAPALLY VAISHNAV	Vaishnav
28	23671A0528	M PRASHANTH KUMAR	Prashanth
29	23671A0529	MADHAVANENI SRIJANITH	Vanitha
30	23671A0530	MANDAGIRI VANAJA	Vanaja
31	23671A0531	MANGELA SHIVAGANESH	Shivaganesh
32	23671A0532	MOHAMMED AFTAB JUNAID	Aftab
33	23671A0533	MUDAVATH MUKESH	Mukesh
34	23671A0534	MUNJALA SIRIHASINI	Sirihasi
35	23671A0535	MYAKALA RETHWIK	Rethwik
36	23671A0536	NANDIGAMA SHIVA KUMAR	Shivakumar
37	23671A0537	NENAVATH PAVAN KUMAR	Pavan
38	23671A0538	PAMARTHI GNANESHWARI	Gnaneshwari
39	23671A0539	POODARI PRATHYUSHA	Prathyusha
40	23671A0540	PULICHERI SINDHUJA	Sindhuja
41	23671A0541	PUPPALA SAMANVITHA	Samanvitha
42	23671A0542	RAMIDI MONISH REDDY	Monish
43	23671A0543	RAVULA ANJU SREE	Anju
44	23671A0544	SAKSHI YADAV	Sakshi Yadav
45	23671A0545	SHAIK SOHAIL AZAIN ABDUL RAFIK	Sohail
46	23671A0546	SUNDAL BASAVA SAGAR	Basava Sagar
47	23671A0547	TEJAVATH YASWANTH	Yaswanth

Sl.No.	Roll No.	Name of the Student	Signature
48	23671A0548	THEEGELA AKHILA SRI	
49	23671A0549	V RISHI	V Rishi
50	23671A0550	VEERAMUSTI SAI DHANUSH	Dhanush
51	23671A0551	VELMALA SHRAVAN REDDY	Shraavan
52	23671A0552	THENMATAM KALYANA CHARYULU	Kalyan
53	23671A0553	DANNARAM ANJI REDDY	Saithoja
54	23671A0554	YANAGANDULA SAITEJA	Sai
55	23671A0555	BILLAPATI SRIKANTH REDDY	Srikanth
56	23671A0556	SHAKKARAGARI MANOJ REDDY	Manoj Reddy
57	23671A0557	VASANTHA SWATHIKA	Swathika
58	23671A0558	ADARSH	Adarsh
59	23671A0559	KUNURU NIKHIL	Nikhil
60	23671A0560	KONDA RAJESH REDDY	Rajesh
61	22671A0501	ADEPU UDAYKUMAR	Uday
62	22671A0502	ANURADHA SAHOO	Sahoo
63	22671A0503	ASADI HARI PRASAD	Hariprasad
64	22671A0504	B AKHIL SINGH	Akhil
65	22671A0505	BOJJANABOINA VEERA AKUL RAGHAV	Akul
66	22671A0506	BURRA SAI VARDHAN	Vardhan
67	22671A0507	CHAKALI KAVYASRI	Kavyasri
68	22671A0508	CHANDRA SHEKAR PUNNA	Shekar
69	22671A0509	CHIPPALAPALLI SOWMYA	Sowmya
70	22671A0511	DONGLE GAYATHRI	Gayathri
71	22671A0512	DORTHALI ESHWAR	Eshwar
72	22671A0513	ELDONDA PREETHI	Preethi