



Department of Computer Science & Information Technology

CIRCULAR

Ref. no.: AJU/CS&IT/082/2024-25

Date:07.02.2025

This is hereby notified to all the students that Department of Computer Science & Information Technology, School of Engineering and IT, ARKA JAIN University, Jharkhand, Organizing a Workshop on "IOT And Machine learning" from 24.02.2025 to 28.02.2025. The session will cover the latest advancements, applications, and future scope of these technologies, helping participants understand their significance in various industries.

Key Highlights of the Seminar:

- ✓ Introduction to IoT and its real-world applications
- ✓ Basics of Machine Learning and its role in IoT
- ✓ Live demonstrations and case studies
- ✓ Expert talk and interactive Q&A session

Day-1: Understanding IoT Fundamentals by Mr. Debanjan Ghosh
Day-2: Setting Up Iot Devices by Mr. Utkarsh
Day-3: Explore Machine Learning Basics by Ms. Aarsi Kumari
Day-4: Integrate IoT with Machine Learning by Ms. Divya Paikaray
Day-5: Hands on Session by Mr. Akash Kumar Bhagat

Dr. Arvind Kumar Pandey

Dean,

School of Engineering & IT

ARKA JAIN University, Jharkhand

Dean

School of Engineering & IT
ARKA JAIN University Jharkhand

WORKSHOP ON IOT AND MACHINE LEARNING

Date of Event	24.02.2025 – 28.02.2025
Name of the Event	Workshop on IoT and Machine Learning
Type of the Event	Skill Development
Conducted by	Mr. Akash Kumar Bhagat, Ms. Divya Paikaray, Mr. Debanjan Ghosh, Ms. Aarsi and Mr. Utkarsh.
No. Of Participants	51

Introduction

The Department of Computer Science & Information Technology at ARKA JAIN University successfully organized a five-day workshop on the Internet of Things (IoT) and Machine Learning from 24th February to 28th February 2024. The workshop aimed to provide students, researchers, and faculty members with hands-on experience and in-depth knowledge of emerging technologies in the field of IoT and Machine Learning.

Objective of the Workshop

The primary objectives of the workshop were:

- To introduce participants to the fundamentals of IoT and Machine Learning.
- To demonstrate real-world applications and case studies in these domains.
- To equip participants with hands-on experience in IoT-based hardware and software development.
- To explore the integration of IoT with Machine Learning for intelligent systems.
- To encourage research and innovation among students and faculty members.

Workshop Highlights

The workshop spanned five days and covered a comprehensive range of topics, including theoretical sessions, hands-on practical exercises, and live demonstrations. Each session was conducted by industry experts and academic professionals specializing in IoT and Machine Learning.

Day 1: Introduction to IoT and its Applications

- Overview of IoT and its significance in modern technology.
- Components and architecture of IoT systems.
- Real-world use cases of IoT in smart homes, healthcare, and industrial automation.
- Hands-on session on basic IoT hardware components and sensors.

Day 2: IoT Protocols and Communication Technologies

- Introduction to communication protocols: MQTT, CoAP, and HTTP.

- Wireless technologies for IoT: Wi-Fi, Bluetooth, Zigbee, and LoRa.
- Practical session on setting up IoT devices for real-time data transmission.

Day 3: Introduction to Machine Learning

- Basics of Machine Learning: Supervised, Unsupervised, and Reinforcement Learning.
- Machine Learning algorithms and their applications.
- Hands-on session on Python libraries for ML: NumPy, Pandas, and Scikit-Learn.

Day 4: Integration of IoT with Machine Learning

- Collecting IoT data for Machine Learning applications.
- Pre-processing and analyzing sensor data.
- Building predictive models for IoT applications.
- Live demonstration of a smart monitoring system using IoT and ML.

Day 5: Project Implementation and Valedictory Session

- Group project presentations on IoT and Machine Learning applications.
- Expert panel discussion on future trends and career opportunities in IoT and ML.
- Distribution of certificates to participants.
- Concluding remarks by faculty members and industry experts.

TAKE AWAYS

The workshop was a grand success, with over 51 participants actively engaging in the sessions. Attendees gained valuable insights into IoT and Machine Learning, and the hands-on sessions provided them with practical experience. The workshop fostered innovation and inspired students to undertake further research and projects in these fields.



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POSTER OF EVENT:

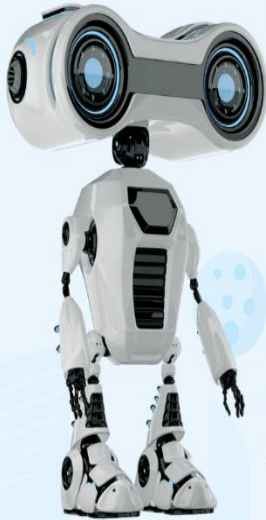


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Outlook
ICARE RANKING
2023

RANKED 3rd
IN "TOP-15 EMERGING
PRIVATE UNIVERSITIES IN INDIA" CATEGORY

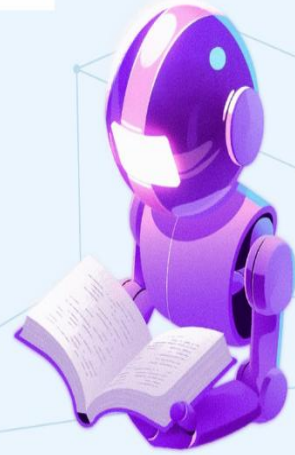


DEPARTMENT OF COMPUTER SCIENCE & IT
SCHOOL OF ENGINEERING & IT

Organizes

5 DAYS WORKSHOP ON

IoT And Machine Learning



24th February'25 - 28th February'25

DAY-1 : Understanding IoT Fundamentals by Mr. Debanjan Ghosh
DAY-2 : Setting Up IoT Devices by Mr. Utkarsh
DAY-3 : Explore Machine Learning Basics by Ms. Aarsi Kumari
DAY-4 : Integrate IoT with Machine Learning by Ms. Divya Paikaray
DAY-5 : Hands on Session by Mr. Akash Kumar Bhagat

SCAN QR CODE
FOR REGISTRATION:



CONVENER : DR. ARVIND KUMAR PANDEY ,DEAN
SCHOOL OF ENGINEERING & IT

CO-ORDINATOR : MR. AKASH KUMAR BHAGAT

IMAGES OF THE EVENT



Fig 1: Workshop on IoT and Machine Learning



Fig 2: Workshop on IoT and Machine Learning

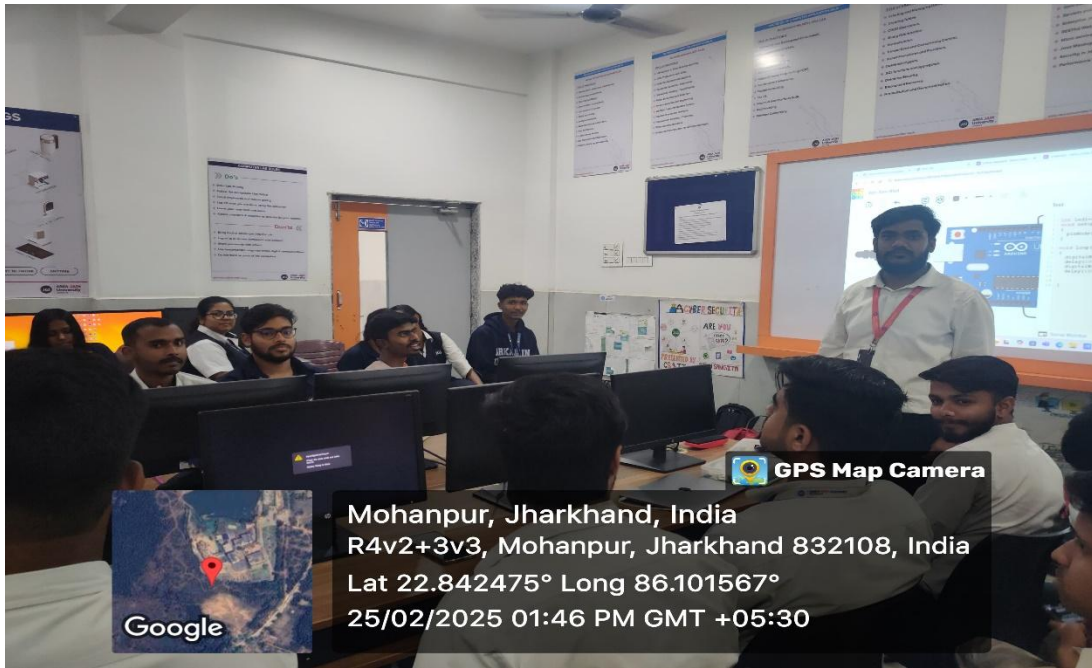


Fig 3: Workshop on IoT and Machine Learning

LIST OF PARTICIPANTS

ARKA JAIN University					
ATTENDANCE SHEET					
5 DAYS WORKSHOP ON IOT AND MACHINE LEARNING					
24TH FEBRUARY 2025 (DAY-1)					
Sl No.	Enrollment No.	Program	Sem	Name of the Participant	Signature
01	230721	BCA	IV	Ashwani Das	Ashwani
2	231320	BCA	IV	Abhishek Kumar	Abhishek
3	231529	BCA	IV	Poojanka Kumari	Poojanka
4	230803	BCA	IV	Sagik Kumar Behera	Sagik
5	230528	BCA	IV	Arpit Kumar Gupta	Arpit
6	230293	BCA	IV	Dhananjay Dagar	Dhananjay
7	231855	BCA	IV	Satyanand Kumar Singh	Satyanand
8	231929	BCA	IV	Ashish Kumar Mahato	Ashish
9	230851	BCA	IV	Jaydeep Chakraborty	Jaydeep
10	231319	BCA	IV	Rajeshwari Jena	Rajeshwari
11	230985	BCA	IV	Sabir Raj	Sabir
12	230884	BCA	IV	Aryam Kumar	Aryam
13	231564	BCA	IV	Jayrajest Kaur	Jayrajest
14	231032	BCA	IV	Sourav Kumar Phatar	Sourav
15	231498	BCA	IV	Tannu Kumari	Tannu
16	231670	BCA	IV	SPRAGYA BISHAR	SPRAGYA
17	231700	BCA	IV	Sumit Kumar Nayak	Sumit
18	231710	BCA	IV	Avinash Dash	Avinash
19	231680	BCA	IV	Ankush Kumar	Ankush
20	230038	BCA	IV	Soni Kumari	Soni
21	231328	BCA	IV	Aditya Kumar Knichraopt	Aditya
22	241389	BCA-CS	II	Anjali Kumari	Anjali
23	240294	BCA-CS	II	Aishu Jhal	Aishu
24	241499	BCA(AI/ML)	II	Mousumi Guin	Mousumi
25	241444	BCA	IV	Rajashree	Rajashree
26	240195	BCA	IV	Shikha Kumari	Shikha
27	240108	BCA	IV	Anshu Kumari	Anshu
28	230192	BCA	IV	Vinayak Dubey	Vinayak
29	230487	BCA	IV	Souvik Chakraborty	Souvik
30	230265	BCA	IV	Divyansh Kumar	Divyansh
31	230356	BCA	IV	ARNAB DAS	ARNAB
32	230143	BCA	IV	ABHINAV ANAND	Abhinav
33	240817	BCA (CS)	II	VIJAY KUMAR	Vijay
34	241269	BCA (CS)	II	NEHA KUMARI	Neha
35	231568	BCA	IV	Karan K. Noma	Karan
36	231711	BCA	IV	Khushi Kumari	Khushi
37	231544	BCA	IV	Himanshu Kumari	Himanshu
38	230767	BCA	IV	APURVA MAHATO	Apurva
39	230393	BCA	IV	Niharika Kumari	Niharika
40	230813	BCA	IV	Aspita Singh	Aspita
41	230425	BCA	IV	Ankit saw	Ankit
42	230453	BCA	IV	Badal choudhary	Badal choudhary

Debarjan Choudhary
 24/2

Anvill Pandey

Dean
 School of Engineering & IT
 ARKA JAIN University JI arkhand


ATTENDANCE SHEET
5 DAYS WORKSHOP ON IOT AND MACHINE LEARNING

25TH FEBRUARY 2025 (DAY-2)

Sl No.	Student's Name	Enrollment No.	Signature
01	Ritesh Pradhan	AJU/241759	Ritesh
02	Karan Kumar Nanda	AJU/231568	Karan
03	Sanjib Kumar Behera	AJU/230803	Sanjib
04	Aditya Kumar Kaishikawat	AJU/231328	Aditya
05	Soni Kumari	AJU/230038	Soni
06	Shreya Sen	AJU/240427	Shreya Sen
07	RISHI ANAND	AJU/240806	Rishi Anand
08	Gourav Mashi	AJU/240648	Gourav Mashi
09	Satyam Kumar Singh	AJU/231855	Satyam Kumar
10	Pranavjay Dikar	AJU/230243	Pranavjay
11	ARNAB DAS	AJU/230556	ARNAB DAS
12	Arunash Dash	AJU/231710	Arunash Dash
13	Sumit Kumar Nayak	AJU/231700	Sumit
14	Mukund Kumar	AJU/240022	Mukund
15	Ankush Kumar	AJU/231680	Ankush
16	SOOBHAGYA BISHAR	AJU/231670	Soobhagya
17	Tannu Kumar	AJU/231498	Tannu
18	Jayant Kumar	AJU/231574	Jayant Kumar
19	Sourabh Kumar Mahato	AJU/230032	Sourabh Kumar
20	Ashut Kumar Gupta	AJU/230528	Ashut Kumar
21	Shikha Singh	AJU/230813	Shikha
22	Niharika Kumari	AJU/230393	Niharika
23	Apurva Mahato	AJU/230767	Apurva
24	Khushi Kumari	AJU/231771	Khushi Kumari
25	Himanshi Kumari	AJU/231544	Himanshi Kumari
26	Samik Chakrabarty	AJU/230087	Samik Chakrabarty
27	Vinayak Dubey	AJU/230192	Vinayak
28	Ankush Kumar Gupta	AJU/231370	Ankush Kumar
29	Amit Kumar	AJU/231389	Amit Kumar
30	Ashu Kumar	231320	Ashu Kumar
31	Nishant Kumar	AJU/231528	Nishant
32	Poojanka Kumari	AJU/231329	Poojanka
33	Ashim Kumar	AJU/230143	Ashim Kumar
34	Rishabh Gupta	AJU/230424	Rishabh Gupta
35	Harsh Kumar Sharma	AJU/240899	Harsh Kumar
36	Smriti Kumari	AJU/241274	Smriti Kumari
37	Vijay Kumar	AJU/240817	Vijay Kumar
38	Nisha Kumari	AJU/241262	Nisha Kumari
39	Aishu Khatun	AJU/240324	Aishu Khatun
40	Mousumi Ghosh	AJU/241499	Mousumi Ghosh
41	Arya Singh	AJU/241460	Arya Singh
42	Achyut Kumar Pathak	AJU/241489	Achyut Kumar

UTKARSH - [Signature]

Name & Signature of the Event Coordinator

Anil Pathy [Signature]

Name & Signature of Dean/Program Coordinator

Dean

 School of Engineering & IT
 ARKA JAIN University Jharkhand


ARKA JAIN
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ATTENDANCE SHEET
5 DAYS WORKSHOP ON IOT AND MACHINE LEARNING
26TH FEBRUARY 2025 (DAY-3)

Sl No.	Enrollment No.	Name of the Participant	Signature
1.	AJU/240022	Mukund Kumar	Mukund Kumar
2.	AJU/230265	DIV VANSH KUMAR	Divan
3.	AJU/230556	ARWAB DAS	Arwab Das
4.	AJU/230415	Ankit Saw	Ankit Saw
5.	AJU/231568	Karan Kumar Nanda	Karan
6.	AJU/230143	Abhinav Anand	Abhinav Anand
7.	AJU/231956	Jogeshwar Yadav	Jogeshwar Yadav
8.	AJU/231855	Satyanand Kumar Singh	Satyanand Kumar Singh
9.	AJU/230243	Abhinavjay Singh	Abhinavjay Singh
10.	AJU/230528	Arpit Kr. Gupta	Arpit
11.	AJU/230803	Sanjib Kr. Bera	Sanjib
12.	AJU/230884	Anjan Kumar	Anjan
13.	AJU/231373	Aditya Kumar	Aditya
14.	AJU/230038	Soni Kumari	Soni
15.	AJU/230597	Jaymit Ray	Jaymit Ray
16.	AJU/231564	Jayrajit Kaur	Jayrajit Kaur
17.	AJU/231032	Sourav Kr. Mahato	Sourav Kr. Mahato
18.	AJU/240806	Rishi Anand	Rishikant
19.	AJU/240427	Shreya Sen	Shreya Sen
20.	AJU/231670	SOUBHAGYA BIKHAR	Soubhagya
21.	AJU/231498	TANU KUMARI	Tanu
22.	AJU/231711	Khushi Kumari	Khushi-Kumari
23.	AJU/231544	Himanshi Kumari	Himanshi
24.	AJU/230767	APURVA MAHATO	Apurva
25.	AJU/230393	NITHARKA KUMARI	Nitharika
26.	AJU/230813	ARPITA SINGH	Arpita
27.	AJU/230338	KUNDAN SAH	Kundan Sah
28.	AJU/231086	Amit Kumar Singh	Amit Kumar Singh
29.	AJU/241499	Mousumi Guin	Mousumi
30.	AJU/241444	Raj Kashyap	Raj Kashyap
31.	AJU/240833	Fardeen Khan	Fardeen Khan
32.	AJU/240108	Anshu Kumari	Anshu
33.	AJU/241442	Ankit Kumar	Ankit
34.	AJU/240195	Ankita Kumari	Ankita
35.	AJU/240648	Georau Masini	Georau

Name & Signature of the Event
 Coordinator

Name & Signature of Dean/Program Coordinator

Dean
 School of Engineering & IT
 ARKA JAIN University Jharkhand


ATTENDANCE SHEET
5 DAYS WORKSHOP ON IOT AND MACHINE LEARNING
27TH FEBRUARY 2025 (DAY-4)

Sl No.	Enrollment No.	Name of the Participant	Signature
1	AJU/240092	Mukund Kumar	Mukund
2	AJU/241449	Ankit Kumar	Ankit
3	AJU/240648	Gaurav Maiki	Gaurav
4	AJU/240195	Ankita Kumari	Ankita
5	AJU/241409	Mausumi Guin	Mausumi
6	AJU/240823	Fardeen Khan	Fardeen Khan
7	AJU/241444	Raj Kashyap	Raj Kashyap
8	AJU/230384	Abhinav Kumar	Abhinav
9	AJU/231224	Sourav Kumar Sharma	Sourav
10	AJU/241759	Ritesh Pasalban	Ritesh
11	AJU/241349	Anuj EKKA	Anuj EKKA
12	AJU/241275	Nikhil Topno	Nikhil Topno
13	AJU/240180	Sailesh Khitroli Kilari	Sailesh
14	AJU/241240427	SHREYA SEN	Shreya Sen
15	AJU/240804	DISHI ANAND	Dishi Anand
16	AJU/240108	Anshu Kumari	Anshu Kumari
17	AJU/231544	Himanshi Kumari	Himanshi
18	AJU/231711	Khushi Kumari	Khushi Kumari
19	AJU/231710	Aumath Dash	Aumath Dash
20	AJU/231680	Ampush Kumar	Ampush Kumar
21	AJU/231319	Rajeshwari Jena	Rajeshwari
22	AJU/230969	Manisha Kumari	Manisha
23	AJU/230985	Sahil Raj	Sahil
24	AJU/231498	Tannu Kumari	Tannu Kri
25	AJU/231670	Saabhagya Bibhar	Saabhagya
26	AJU/231564	Tarabjeet Kaur	Tarabjeet Kaur
27	AJU/230329	Sourav K. Mahato	Sourav K. Mahato
28	AJU/231855	Satyanand Kumar Singh	Satyanand Kumar
29	AJU/230213	Dikhanjay Digoel	Dikhanjay Digoel
30	AJU/230851	Jaydeep Mahant	Jaydeep
31	AJU/231217	Phandan Mahanty	Phandan
32	AJU/230424	Rashan Gupta	Rashan
33	AJU/230528	Arpit Kumar Gupta	Arpit
34	AJU/230903	Sanjib Kumar Behena	Sanjib
35	AJU/230487	Souvik Chakrabarty	Souvik Chakrabarty
36	AJU/230240	Rajnish K. Singh	Rajnish Singh
37	AJU/230499	Souvik Roy	Souvik
38	AJU/230393	Niharika Kumari	Niharika
39	AJU/230813	Ashika Singh	Ashika
40	AJU/230767	Apurva Mahato	Apurva
41	AJU/231542	Pritya Sen	Pritya Sen
42	AJU/241280	AKSHAT AYUSH TIWARI	Ashat Ayush Tiwari

Dinaya Banerjee
 Name & Signature of the Event
 Coordinator

Anil Das
 Name & Signature of Dean/Program Coordinator

Dean
 School of Engineering & IT
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