

Workshop Schedule

Day	Time	Topic
Day 0 18-08-2024	08:00PM to 09:30PM	Introduction to Python
Day 1 19-08-2024	08:00PM to 09:30PM	Variables & Basic of Python Introduction to Machine Learning Types of Machine Learning Building a Machine Learning Model
Day 2 20-08-2024	08:00PM to 09:30PM	Data Preprocessing Classification Algorithms
Day 3 21-08-2024	08:00PM to 09:30PM	Linear Regression Decision Tree Algorithms
Day 4 22-08-2024	08:00PM to 09:30PM	Introduction to Scikit-Learn algorithms Logistic Regression
Day 5 23-08-2024	08:00PM to 09:30PM	Model Evaluation and Model Tuning
Day 6 24-08-2024	08:00PM to 09:30PM	Model Deployment: Flask, Streamlit, Docker, AWS Sagemaker
Day 7 25-08-2024	08:00PM to 09:30PM	Open-Source Machine Learning Frameworks: TensorFlow, PyTorch
Day 8 26-08-2024	08:00PM to 09:30PM	Advanced Topics: Reinforcement Learning, Generative Models
Day 9 27-08-2024	08:00PM to 09:30PM	Project Presentation and Feedback
Day 10 28-08-2024	08:00PM to 09:30PM	Introduction to Machine Learning with TensorFlow
Day 11 29-08-2024	08:00PM to 09:30PM	Introduction to Machine Learning with TensorFlow

Workshop Objective

To leverage Python programming for developing and optimizing machine learning models, aiming to enhance data-driven decision-making and predictive accuracy. Focus on creating efficient algorithms, improving model performance, and solving complex problems through advanced analytical techniques and innovative solutions.

Workshop Outcomes

1. Develop and implement machine learning models using Python.
2. Clean and prepare datasets for effective model training.
3. Assess and fine-tune model performance with various techniques.
4. Visualize model results to facilitate understanding and decision-making.
5. Apply machine learning techniques to solve practical problems.

Organizers

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Professor & Head, Dept. of CSE

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Sri M. UDAY KUMAR Associate Professor, Dept. of CSE
Sri P. SREENIVASA RAO Associate Professor, Dept. of CSE
Mr. D. RAJU Assistant Professor(C), Dept. of CSE

STUDENT COORDINATORS

R. Laxminarayana, II CSE, #7601046776
K. Paul Dinkor, II CSE, #7980585848
M. Jobili, II CSE, #8623822707
M. Havila Grace, II CSE, #8919510272



JAYANARAYANA TECHNOLOGICAL UNIVERSITY
HYDERABAD
UNIVERSITY COLLEGE OF ENGINEERING (AUTONOMOUS)
(Approved by UGC, A-Grade 3)
(UPEERAPURAM)



DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING
(Accredited by NBA, UG-CSE)

Organizes a
Ten Days Workshop
on



**"Machine Learning Using
Python Programming"**

Last Date for Registration
"18-08-2024"

Timings

"02:00 pm to 5:00 pm"

For more Details visit:
www.jntuhcej.ac.in

About JNTUH UCEJ

JNTUH University College of Engineering Jagtial (JNTUH UCEJ) was established in the year 2007 as a constituent college of Jawaharlal Nehru Technological University Hyderabad. The College was approved by AICTE, New Delhi and recognised by UEC under Section 3 (f) & 3 (b) of the UEC Act, 1956. JNTUH UCEJ has received THE ENGINEERING EDUCATORS AWARD from the University of Bradford, UK and Education Matters for exemplary commitment and impactful positive contribution to the education sector on 8th February, 2014. The College was accredited by NAAC with A+ in 2022. The three UG Programs - such as CSE, EEE & ME offered by the college are accredited by NBA. The College was located in a serene and green environment with well equipped and state of the art laboratories in all the departments. The faculty are highly qualified and about 60% of them are Doctorates.

About The Department

The Department of Computer Science and Engineering was established in the year 2007. The Department offers UG and PG Programs. It was accredited by NBA for UG-CSE. The Department has been maintaining high standards in imparting quality education in Computer Science. The Department has state of the art infrastructure and computing equipment supported by high speed Internet and wireless networks. The faculty in the department comprises of two Senior Professors, two Professors, two Associate Professors and three Assistant Professors (7). The Department faculty have more than 500 publications, filed more than 25 patents and undertaken more than 5 funded research projects. The thrust areas of research include Machine Learning, Artificial Intelligence, Image Processing, Real time operating Systems, Neural Networks, Data mining, Information retrieval and Web mining, Information Security, Networks, Operating Systems, Distributed Systems, Parallel processing and Human Computer Interaction.

About Workshop

Machine Learning workshop using Python** is designed to provide participants with a comprehensive introduction to the field of machine learning, focusing on both theory and practical implementation. The workshop usually begins with an overview of machine learning, covering key concepts like supervised, unsupervised, and reinforcement learning, and demonstrating how these techniques are applied in various real-world scenarios. Participants are then introduced to Python, the preferred programming language for machine learning, with a focus on its syntax, data structures, and core libraries such as NumPy, pandas, and scikit learn. The workshop emphasises data handling and preprocessing, guiding participants through the process of loading datasets, cleaning data, and performing exploratory data analysis (EDA). This is crucial for understanding data patterns and making informed decisions when engineering features. The core of the workshop typically involves hands-on coding sessions where participants build and evaluate various machine learning models. These sessions might include creating regression models for predicting continuous outcomes or classification models for categorical predictions, and exploring unsupervised learning techniques like clustering and dimensionality reduction.

Institution Vision

The aspiration is to emerge as a premier institution in technical education in producing professional and competent engineers capable of making valuable contributions in Engineering and Technology.

Department Vision

The aspiration is to provide innovative centric professional education in Computer Science and Engineering.

Institution Mission

- The aspirations shall continue to fulfill: With the support of diligent, assiduous, industrious, and highly qualified faculty.
- With state-of-art facilities for knowledge enrichment of students.
 - Guiding and training students in conjunction with needs of industry

Department Mission

The aspirations shall continue to fulfill:

- Imparting quality education through innovative teaching learning practices.
- To provide the state-of-the-art infrastructure and technology to suit academic and industry requirements
- Inspire and Motivate the students and staff to attain professional computing and research skills for the continuous improvement.

Registration link

<https://docs.google.com/forms/d/1F5b0C13dV0bCBMEPrBnJkE7nL3EzrWnaVOUuCPNdlvYbXk/viewform?usp=sharing>

Registration Fee - Rs. 500/- to be paid to the students co-ordinator (P. Laxminivas 7601046778) at the time of submitting the online registration form



Welcome



A Ten Days Workshop
on
MACHINE LEARNING USING PYTHON PROGRAMMING

20th - 29th August, 2024

Resource Persons:

Ms. Tatiparthi Sravanthi

Assistant Professor, Dept. of
CSE, Research Scholar at VNIT, Nagpur

Ms. Madhavi Velpula

Assistant Professor, Dept. of Computer
Science and Engineering.



COORDINATOR:

Dr. B. SATEESH KUMAR

Professor & Head,
Dept. of CSE

Organized by:

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
(Accredited by NBA)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
UNIVERSITY COLLEGE OF ENGINEERING JAGTIAL

(Accredited by NAAC: A+ Grade, Autonomous)

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W E L C O M E

To

A Ten Day Workshop

(20-08-2024 to 29-08-2024)

ON



Machine Learning using Python Programming



ORGANIZED BY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

(Accredited by NBA)

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
UNIVERSITY COLLEGE OF ENGINEERING JAGTIAL**

(AUTONOMOUS)

Nachupally (Kondagatu), Kodimial, Jagtial dist.-505 501



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UNIVERSITY COLLEGE OF ENGINEERING JAGTIAL
(AUTONOMOUS)
Nachupally(Kondagattu),KodinialMandal,JagtialDist.-505501,TS(India)



A Ten-Day Workshop
On
"MACHINE LEARNING USING PYTHON PROGRAMMING"
(20-8-2024 to 29-8-2024)
Schedule

Day#	Date	Time	Topics	Resource Person
Day-1	20-08-2024 (Tuesday)	02:00PM to 05:00PM	Introduction to Python, Hands on- Basic of Python	Ms. Madhavi Velpula Assistant Professor, CSE(Data Science), Vaagdevi Engineering College, and IEEE VEC SB Counselor
Day-2	21-08-2024 (Wednesday)	02:00PM to 05:00PM	Introduction to Machine Learning, Types of Machine Learning, Building a Machine learning model	
Day-3	22-08-2024 (Thursday)	02:00PM to 05:00PM	Data Preprocessing, Correlation analysis in Python	
Day-4	23-08-2024 (Friday)	02:00PM to 05:00PM	Linear Regression, Practical Implementation	Mrs.Tatiparthi Sravanthi Assistant Professor, Kakatiya Institute of Technology and Science Warangal, and Research Scholar at VNIT Nagpur
Day-5	24-08-2024 (Saturday)	10:00AM to 01:00PM	Introduction to Classification algorithms: Logistic Regression	
		02:00PM to 05:00PM	KNN, Comparison of all three models	
Day-6	25-08-2024 (Sunday)	10:00AM to 01:00PM	Simple Decision Trees, Plotting Decision tree in Python	
		02:00PM to 05:00PM	Random Forest, Plotting Random Forest in Python	
Day-7	26-08-2024 (Monday)	10:00AM to 01:00PM	Open CV Library, Hands on	
		02:00PM to 05:00PM	SVM, Plotting SVM in Python Quiz followed by Feedback session	
Day-8	27-08-2024 (Tuesday)	02:00PM to 05:00PM	K-means, Plotting K-Means in Python	Ms. Madhavi Velpula Assistant Professor, CSE(Data Science), Vaagdevi Engineering College, and IEEE VEC SB Counselor
Day-9	28-08-2024 (Wednesday)	02:00PM to 05:00PM	Time -series Analysis using Python	
Day-10	29-08-2024 (Thursday)	02:00PM to 05:00PM	Introduction to TensorFlow Implementing using TensorFlow	
			Quiz followed by Feedback session	

-Sd-

Head, CSE



 GPS Map Camera



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Unnamed Road, Telangana 505501, India
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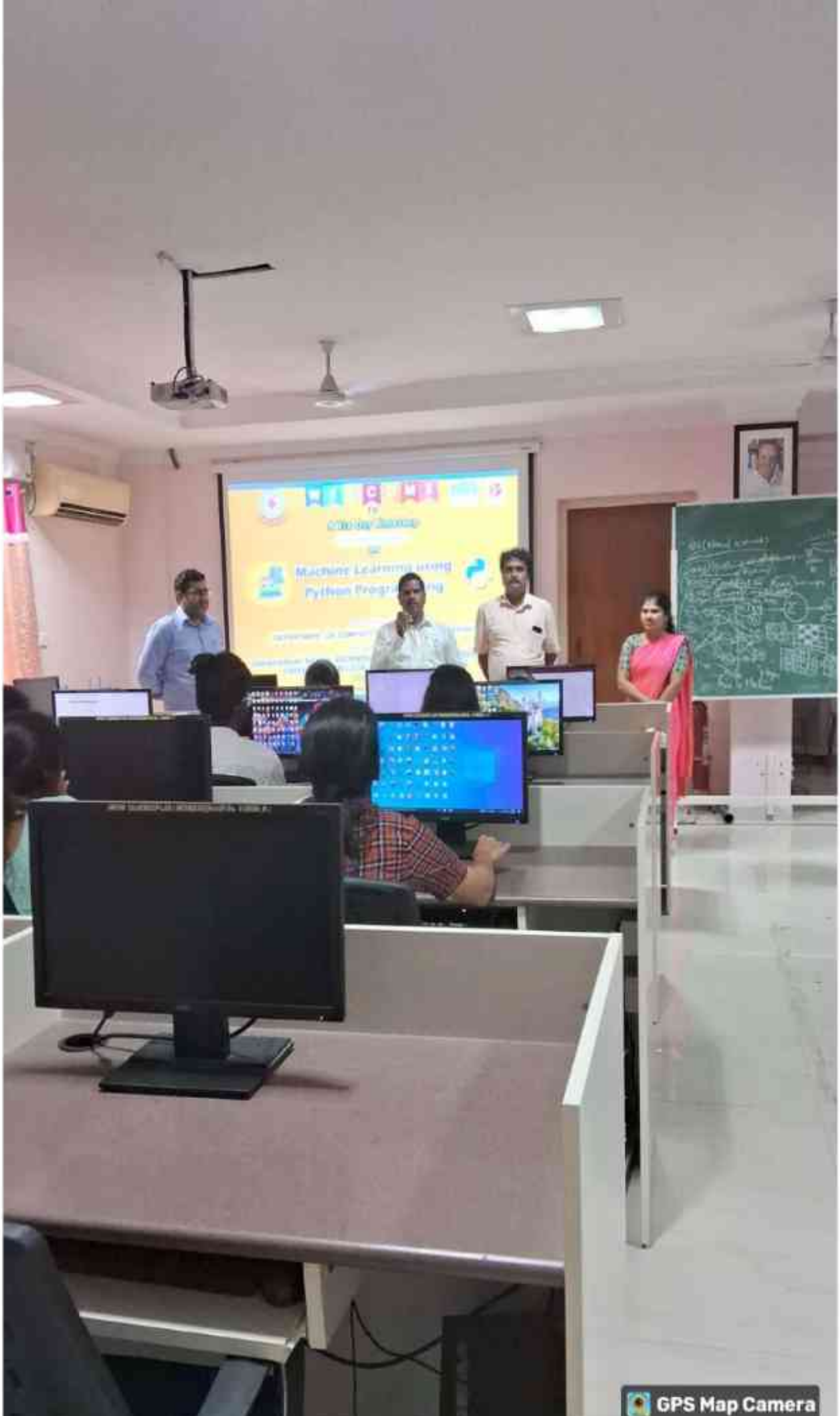
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Academic Block 1, Telangana 505501, India
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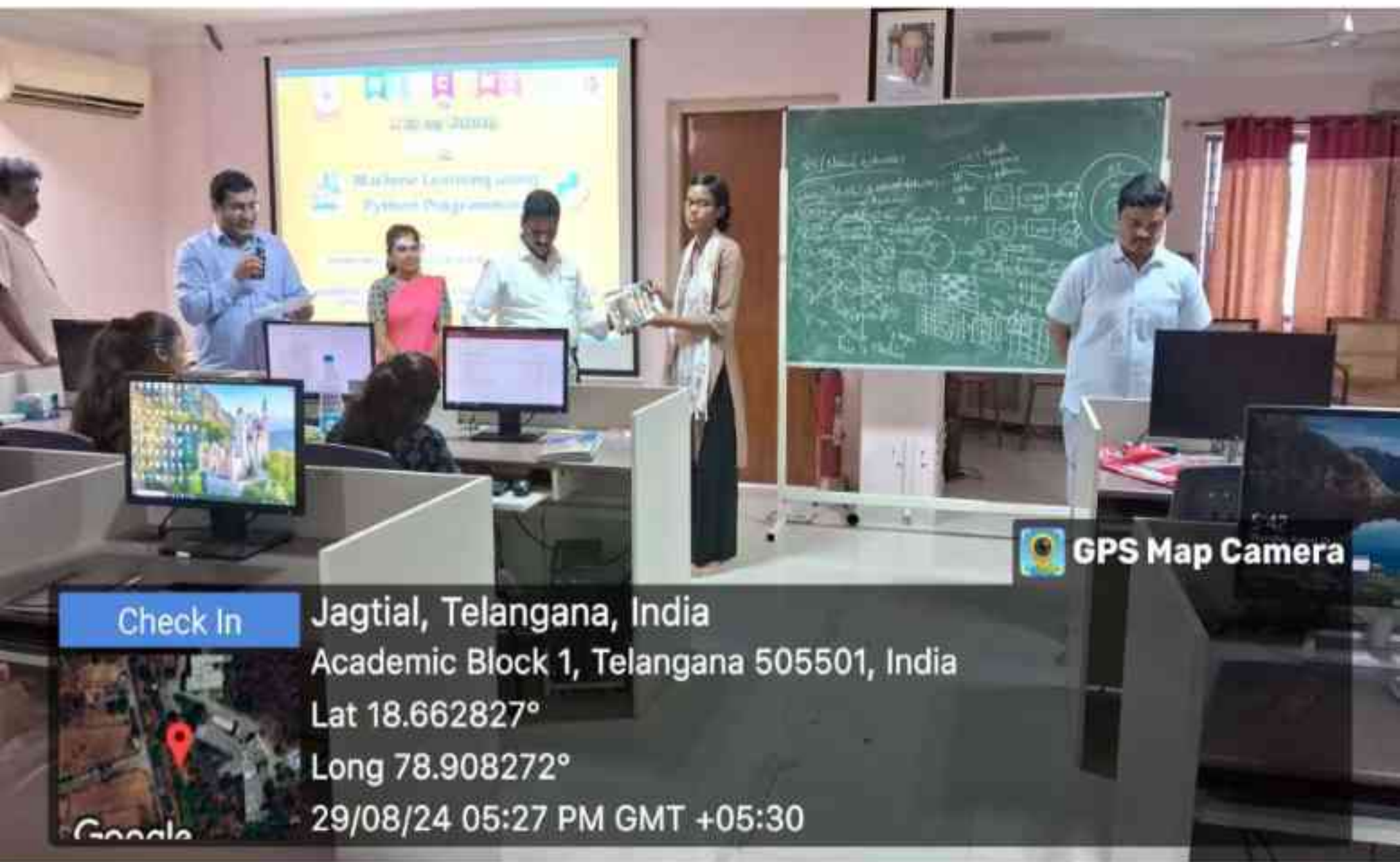
GPS Map Camera



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UNIVERSITY COLLEGE OF ENGINEERING JAGTIAL (AUTONOMOUS)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

(Accredited by NMAC & NBA)

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Website: www.jntuhcej.ac.in, Email-Id: jntuhcej.cse5@gmail.com



**A Ten Day Workshop
(20.08.2024 to 29.08.2024)**

Machine Learning using Python Programming

Attendance Sheet

Academic Year: 2024-2025

Branch: II CSE I Sem

[illegible]

Sl. No.	Hall Ticket No.	Day - 1 (20.08.204)	Day - 2 (21.08.204)	Day - 3 (22.08.204)	Day - 4 (23.08.204)	Day - 5 (24.08.204)	Day - 6 (25.08.204)	Day - 7 (26.08.204)	Day - 8 (27.08.204)	Day - 9 (28.08.204)	Day - 10 (29.08.204)
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63	23JJ1A0563	ABSENT	Kaveri	Kaveri	Kaveri	Kaveri	Kaveri	Kaveri	Kaveri	T. Kaveri	T. Kaveri
64	23JJ1A0565	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
65	23JJ1A0566	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
66	24JJ5A0501	ABSENT	A. Tulasi	A. Tulasi	A. Tulasi	A. Tulasi	A. Tulasi	A. Tulasi	A. Tulasi	A. Tulasi	A. Tulasi
67	24JJ5A0502	A. Shashank	A. Shashank	A. Shashank	A. Shashank	A. Shashank	A. Shashank	A. Shashank	A. Shashank	A. Shashank	A. Shashank
68	24JJ5A0503	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
69	24JJ5A0504	ABSENT	B. Rajeshwari	B. Rajeshwari	B. Rajeshwari	B. Rajeshwari	B. Rajeshwari	B. Rajeshwari	B. Rajeshwari	B. Rajeshwari	B. Rajeshwari
70	24JJ5A0505	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
71	24JJ5A0506	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
72	24JJ5A0507	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT
73	24JJ5A0508	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT	ABSENT

Coordinator

HOD, CSE



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Participation Certificate

This is to certify that Mr./Ms. ALETHI RANITHA, Roll.No. 23JJ1A0503

Department of Computer Science & Engineering has participated in a Ten-Day Workshop on "Machine Learning using Python Programming" from 20th to 29th August 2024, organized by Department of CSE, JNTUH University College of Engineering Jagtial (Autonomous), Nachupally, Jagtial Dist.-505 501, Telangana State, India.

Prof. B. Sateesh Kumar
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This is to certify that Mr./Ms. ANIMINDULA AKHIL, Roll.No. 23JT1A0504

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This is to certify that Mr./Ms. BADIKELA AMARENDAR Roll.No. 23JT1A0505

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This is to certify that Mr./Ms. ELKABALI ESHWAR PHANI CHANDU Roll.No. 23JT1A0512

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This is to certify that Mr./Ms. GRUNDALA ASRITH VATHSAL, Roll.No. 23JT1A0517
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August 2024, organized by Department of CSE, JNTUH University College of Engineering
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This is to certify that Mr./Ms. MEGAVATH HAVILA GRACE , Roll.No. 23JT1A0536

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This is to certify that Mr./Ms. NEDURI PRANEETHA, Roll.No. 23JTIPO542

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This is to certify that Mr./Ms. POTHU SRIHARSHA, Roll.No. 23JT1A0548

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This is to certify that Mr./Ms. SHAIK AAQIL Roll.No. 23JT1A0554

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This is to certify that Mr./Ms. ATMAKUR SHASHANK Roll.No.24JJSAA0502

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