LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(An Autonomous Institution since 2010)
Accredited by NAAC with 'A' Grade & NBA (Under Tier - I),
An ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution
Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
L.B. REDDY NAGAR, MYLAVARAM, NTR DIST., A.P.-521 230.
hodcse@lbrce.ac.in, cseoffice@lbrce.ac.in, Phone: 08659-222 933, Fax: 08659-222931
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 5-11-2024

Report on One-Day Guest lecture
on
Advanced Techniques in Machine Learning

Event Type : One Day Guest lectue
Date : 02-11-2024
Time : 2:00 PM to 4:00PM
Mode : Online
Organized By : Dept. of CSE, LBRCE, Mylavaram, India
Resource person :Mr.P.Buddha Reddy
Convener : Dr.D.Veeraiah, Professor and HOD of CSE
Coordinators : Dr.D.Venkata Subbaiah, Mr.G.V.Suresh and Mrs. P.Sarala
Target : V-Sem Students (CSE)]
Total Number of students: 210

1. **Objective:**

To provide an in-depth understanding of the latest developments and advanced techniques in the field of machine learning (ML). This could include topics such as deep learning, reinforcement learning, generative models, transfer learning, explainable AI (XAI), and neural architectures (e.g., CNNs, RNNs, Transformers).

Goal: To expose the audience to the most current research and innovations in ML, helping them stay abreast of the rapidly evolving landscape.

2. **Outcome of the event:**

The outcomes of a guest lecture on **advanced techniques in machine learning** can be categorized based on the knowledge gained, skills developed, and the overall impact it has on the audience.

a) Enhanced Knowledge of Advanced Machine Learning Concepts.
b) Practical Understanding of Real-World Applications
c) Improved Critical Thinking and Problem-Solving Skills.
d) Exposure to Emerging Trends and Future Directions.
e) Increased Ability to Implement Advanced ML Techniques.

3. **Description of the event:**

On 02-11-2024, the CSE department, LBRCE hosted a highly anticipated guest lecture titled **"Advanced Techniques in Machine Learning"**. This event aimed to delve deep into the cutting-edge developments in the field of machine learning (ML) and provide participants with insights into the latest innovations, tools, and challenges faced by researchers and practitioners in the area.

The guest lecture was delivered by **Mr.P.Buddha Reddy**, an expert in the field of machine learning with project lead, Analytics and AI, **L&T Technology, Hyderabad**. The speaker's extensive experience in both academia and industry allowed them to bring a unique, interdisciplinary perspective to the topic.

Key Highlights of the Event:

i) Introduction to Advanced Machine Learning Techniques
ii) Cutting-edge Research and Innovations.
iii) Practical Applications of Advanced ML
iv) Challenges in Scaling ML Models.

The event served as a valuable educational opportunity, sparking insightful discussions and encouraging a forward-thinking approach to the challenges and opportunities that lie ahead in the field of machine learning.

4. **Impact Analysis:**

The guest lecture on **"Advanced Techniques in Machine Learning"** provided significant value to the participants by offering both theoretical insights and practical perspectives on some of the most current developments in the field of machine learning (ML). Below is an analysis of the key impacts of the event.

i) Educational Impact

a) Knowledge Enhancement
b) Exposure to Emerging Trends
c) Critical Thinking and Ethical Awareness

ii) Professional and Practical Impact

a) Real-World Applications
b) Skills Development

iii) Personal Growth and Inspiration

a) Motivation to Pursue Advanced Research
b) Empowerment and Confidence

5. **Fed back and Suggestions:**

Following the event, feedback was collected from participants to gauge their experiences and identify areas for improvement. The feedback was positive, with several suggestions for enhancing future events.

i) Positive Feedback:

a) **Content Quality**: Attendees appreciated the **depth and breadth** of the content covered, especially the real-world examples that helped clarify complex concepts.

b) **Speaker Expertise**: The speaker was highly praised for their ability to explain intricate ML concepts in an engaging and accessible manner, making advanced topics easier to understand.

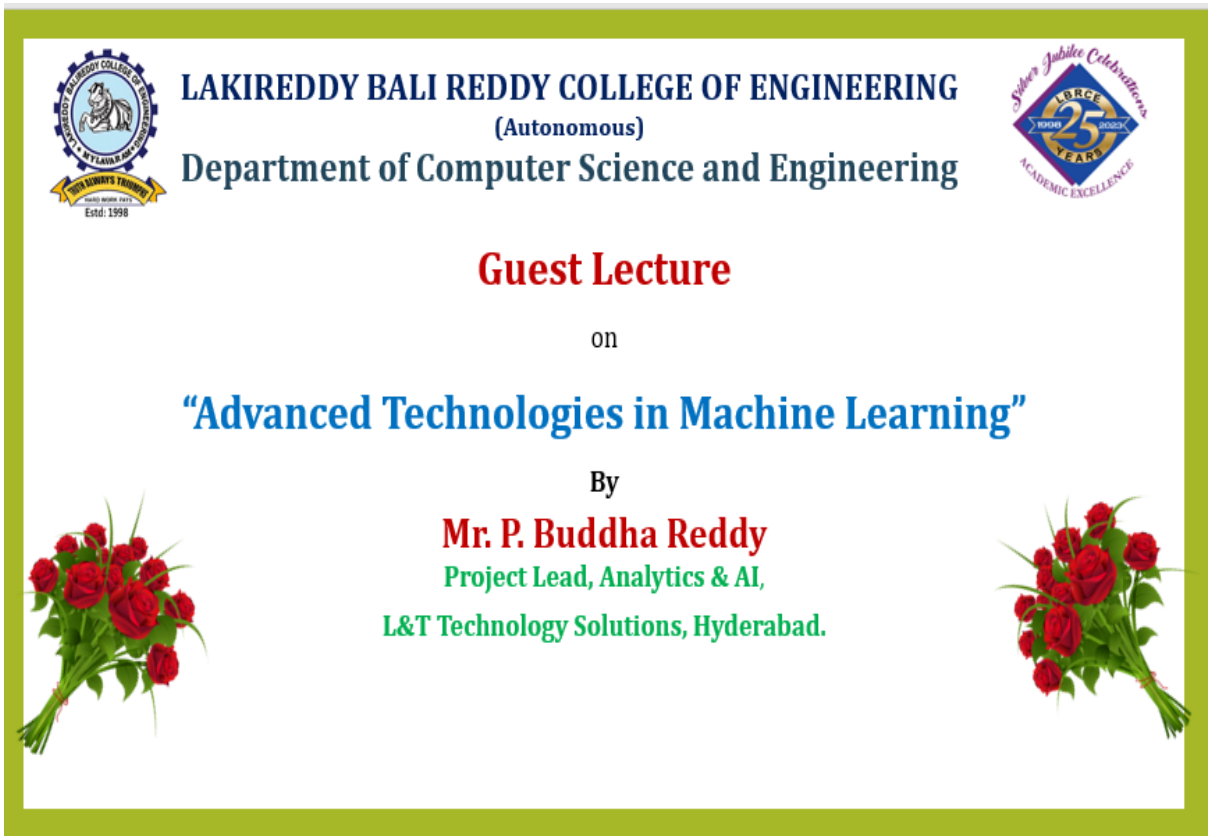
c) **Engagement and Interactivity**: The Q&A session was well-received, with many participants appreciating the opportunity to ask questions and clarify doubts.

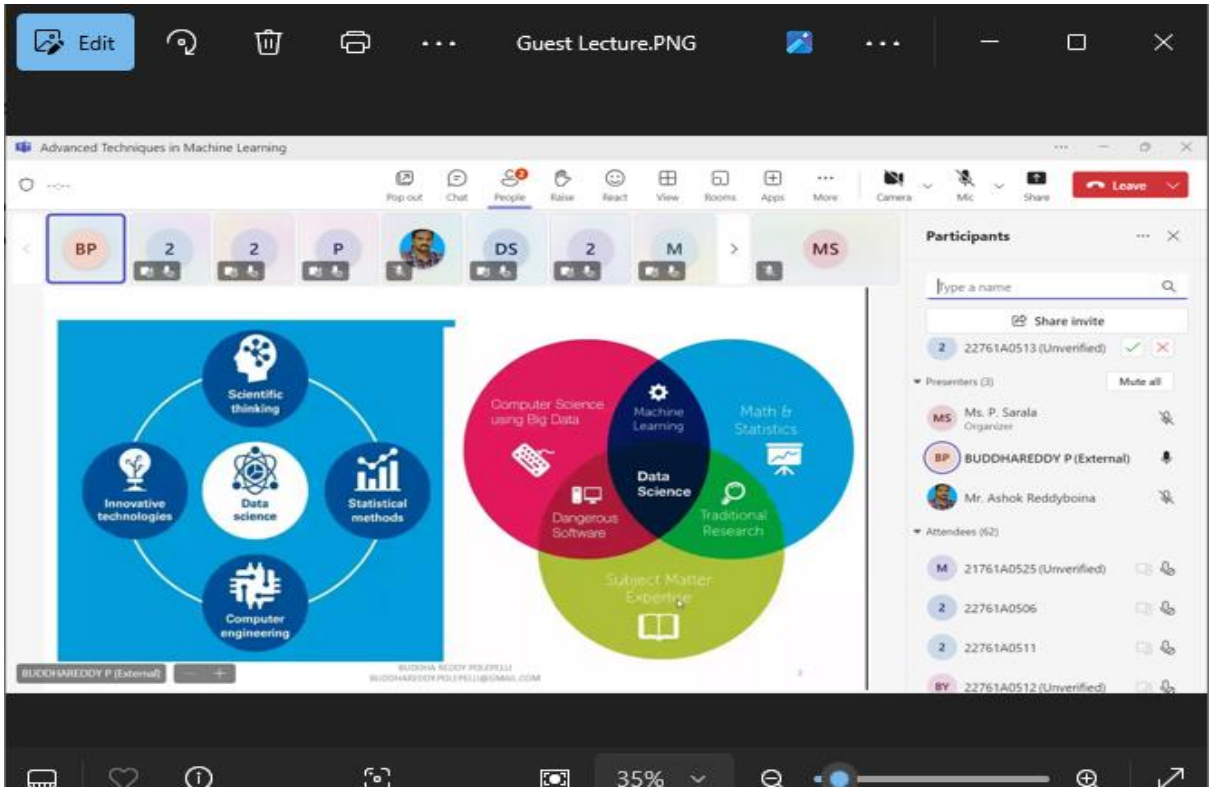
ii) Suggestions for Improvement:

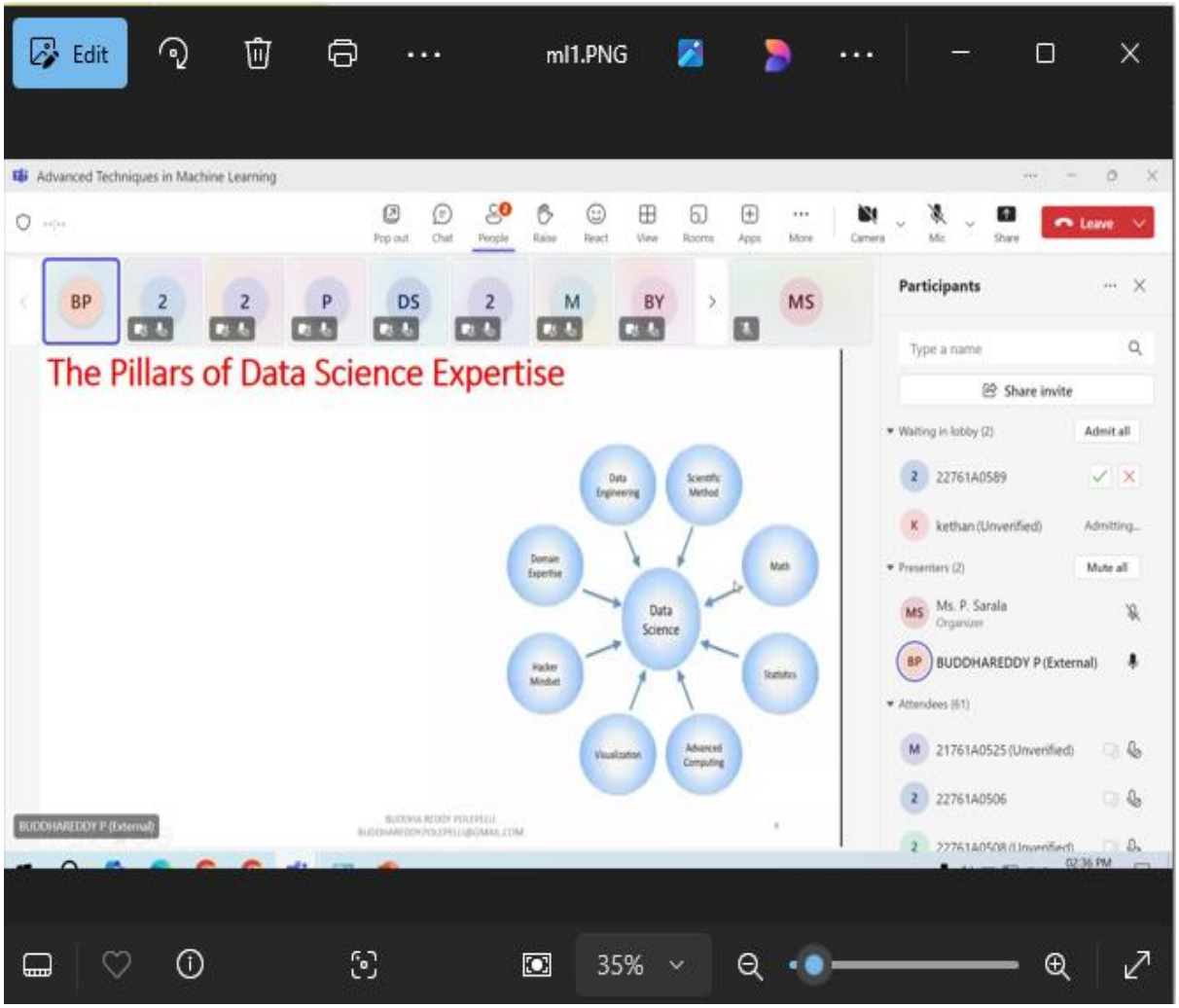
a) More Hands-On Demos: While the lecture provided valuable theoretical insights, some participants suggested including more **live demonstrations** or **practical coding examples** during the lecture. Hands-on demonstrations of key algorithms or tools used in advanced ML techniques could enhance the learning experience.

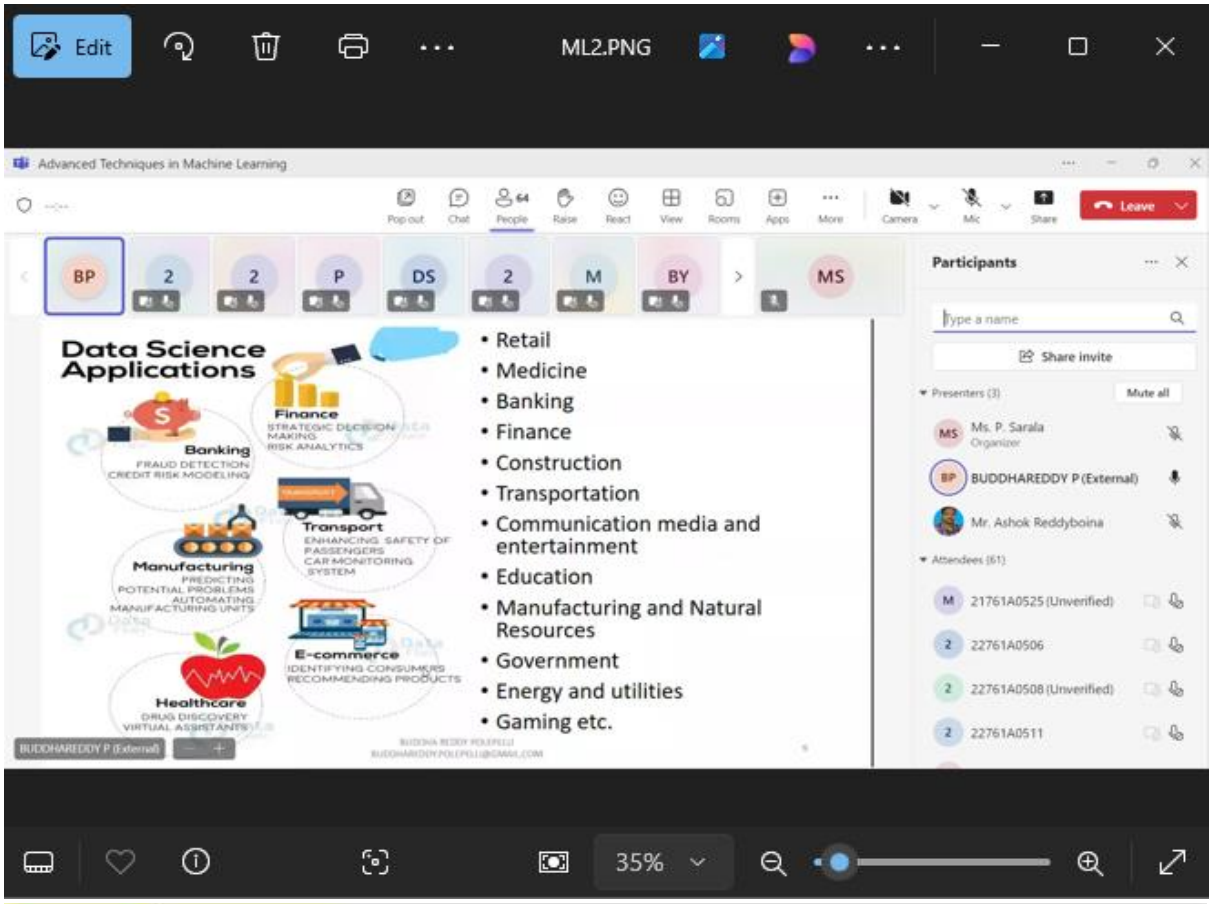
b) Extended Time for Q&A: Some attendees felt that the Q&A session was slightly brief and would have liked more time to engage in detailed discussions with the speaker.

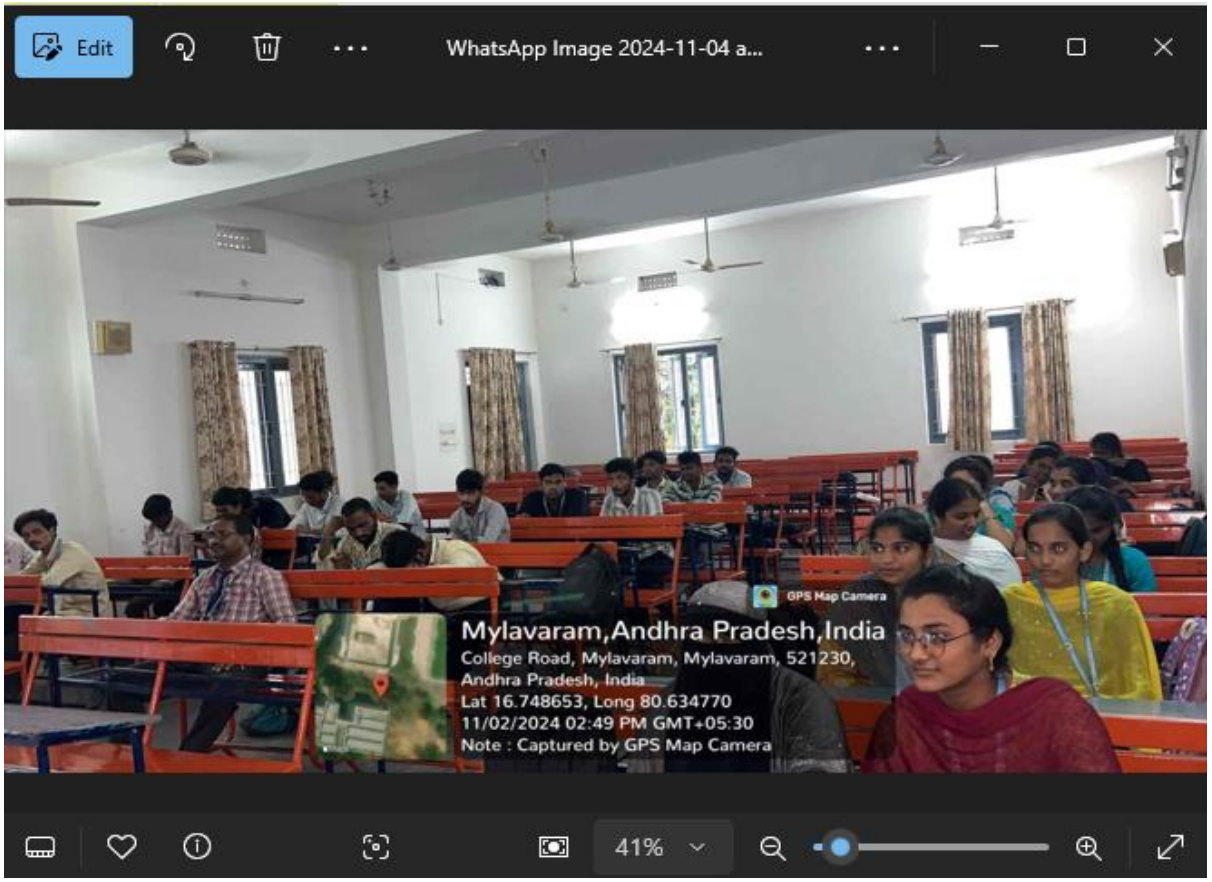
C) Follow-up Workshops: Several participants recommended offering follow-up workshops or webinars focused on specific techniques covered in the lecture, such as **deep learning**, **GANs**, or **reinforcement learning**.

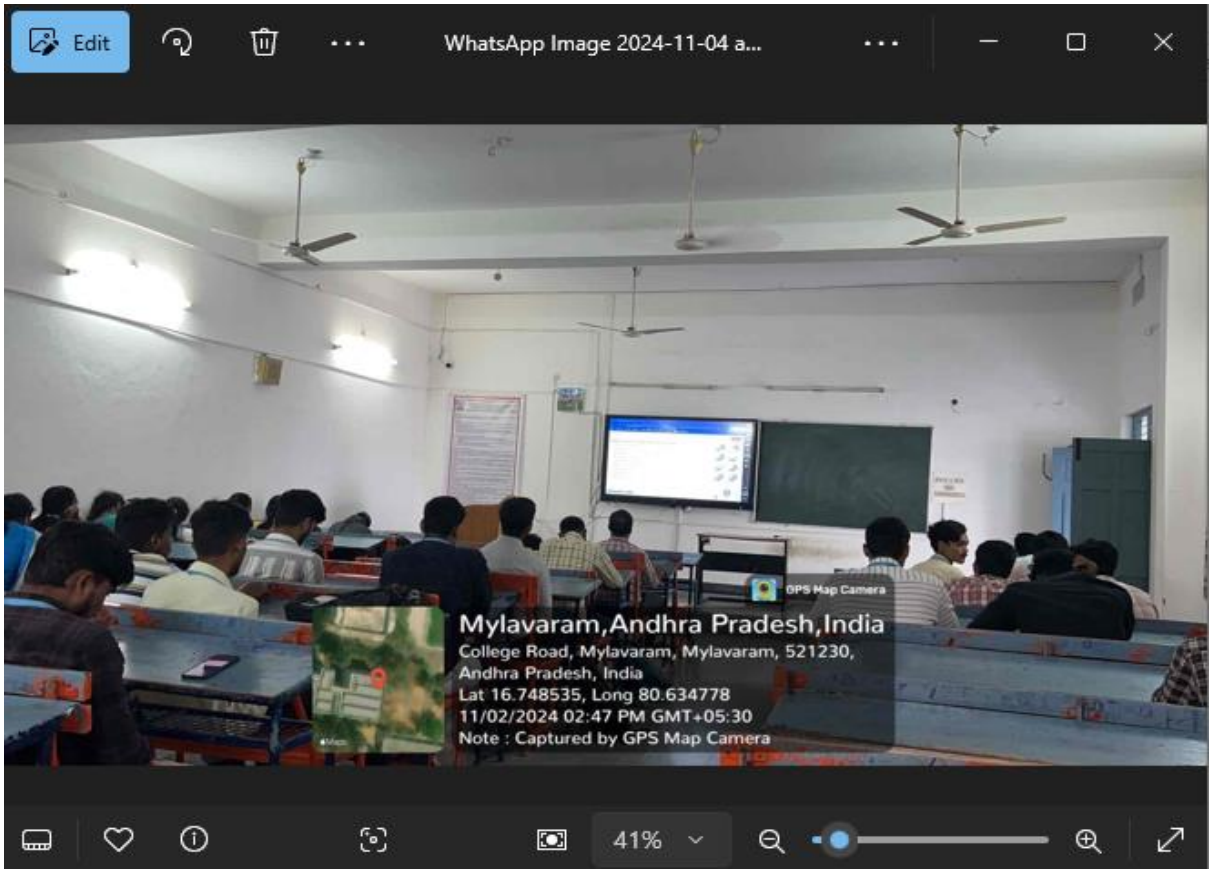



Edit
Guest Lecture.PNG
Advanced Techniques in Machine Learning
Leave
Participants
Scientific thinking
Innovative technologies
Data science
Statistical methods
Computer engineering
Computer Science using Big Data
Machine Learning
Math & Statistics
Data Science
Dangerous Software
Traditional Research
Subject Matter Expertise
35%


Edit
ml1.PNG
Advanced Techniques in Machine Learning
Leave
Participants
The Pillars of Data Science Expertise
Data Engineering
Scientific Method
Math
Statistics
Advanced Computing
Visualization
Hacker Mindset
Domain Expertise
Data Science
35%


Edit
ML2.PNG
Advanced Techniques in Machine Learning
Leave
Participants
Data Science Applications
Finance
STRATEGIC DECISION MAKING
RISK ANALYTICS
Banking
FRAUD DETECTION
CREDIT RISK MODELING
Transport
ENHANCING SAFETY OF PASSENGERS
CAR MONITORING SYSTEM
Manufacturing
PREDICTING POTENTIAL PROBLEMS
AUTOMATING MANUFACTURING UNITS
E-commerce
IDENTIFYING CONSUMERS
RECOMMENDING PRODUCTS
Healthcare
DRUG DISCOVERY
VIRTUAL ASSISTANTS
• Retail
• Medicine
• Banking
• Finance
• Construction
• Transportation
• Communication media and entertainment
• Education
• Manufacturing and Natural Resources
• Government
• Energy and utilities
• Gaming etc.
Ms. P. Sarala
BUDDHAREDDY P (External)
Mr. Ashok Reddyboina
35%


Edit
WhatsApp Image 2024-11-04 a...
GPS Map Camera
Mylavaram,Andhra Pradesh,India
College Road, Mylavaram, Mylavaram, 521230, Andhra Pradesh, India
Lat 16.748653, Long 80.634770
11/02/2024 02:49 PM GMT+05:30
Note : Captured by GPS Map Camera
41%



6. Conclusions of the Event:

The **Guest Lecture on Advanced Techniques in Machine Learning** was a highly successful event that achieved its objectives of deepening attendees' knowledge of machine learning and exposing them to the latest research and trends in the field. Key takeaways from the lecture include:

i) Expanded Knowledge

ii) Networking and Collaboration

iii) Future Exploration

Coordinator	HOD
(Dr.D.Venkata Subbaiah)	(Dr.D.Veeraiah)