



**Dr. Mahalingam College of Engineering and Technology**  
**Office of Dean Research & Innovation**  
and  
**Department of Information Technology**  
**(Artificial Intelligence and Machine Learning)**  
**Research Interest Group**

**Knowledge sharing session**  
**Report on “Recent Trends in Artificial Intelligence”**

**Date: 25.10.2024**

**About the Session:**

<b>S.N o.</b>	<b>Name of the Resource Person</b>	<b>Topic</b>	<b>Date &amp; Time</b>	<b>Venue</b>	<b>No of Participants</b>
1.	Dr.U.Srinivasalu Reddy, Associate Professor, Department of Computer Applications, NIT, Trichy	Recent Trends in Artificial Intelligence	25.10.2024 3.00pm to 4.30pm	Cloud Computing Lab-A518	37

**Objectives:**

- Understand Emerging AI and ML Technologies.
- Analyze and Apply State-of-the-Art Models.
- Explore the Intersection of AI with Other Technologies.

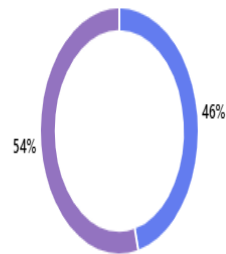
**Topics Covered:**

- Overview of Artificial Intelligence and Machine Learning.
- Outline the importance of data and types of data analytics which helps to make decisions on data.
- Described the big data and its characteristics and challenges and opportunities presented in big data.
- Discussed the supervised learning algorithms - regression analysis and its model assumptions, Support Vector Machines (SVM) and K-Nearest Neighbors (KNN).
- Explained about AI approaches and its nature of task, the availability of data and the need.
- Finally, discussed the importance of 5Ps – Publication, Ph.D., Project, Patent, and Product.

## Feedback:

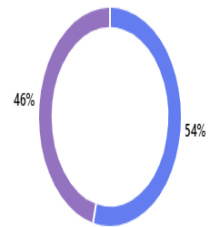
6. How do you rate quality of the speaker?

● Good	6
● Average	0
● Satisfactory	0
● Excellent	7



7. How do you rate effectiveness of the session?

● Good	7
● Average	0
● Satisfactory	0
● Excellent	6



## Q & A Session/Interaction:

- Regarding the hyper parameter tuning in ML algorithms.
- Identified recent prediction model like prophet neural model.
- How to carry out unstructured data with Mango DB.
- Discussed about data-driven techniques.
- Analyzed about how to deal with multicollinearity problem

## Outcomes:


- Enhanced Understanding of AI & ML Concepts.
- Learn, AI & ML algorithms, to process the data and prediction.
- Understand what are the steps to follow while writing journal paper. And noted the key difference between novelty and Expandable ideas.
- Ideas about Perspective Analytics.
- Identified the roles of AI in Agriculture.
- Learn how GenAI impacts in journal paper.

Poster of the event:




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**Department of Information Technology  
&  
Office of Dean Research & Innovation**



**RESEARCH INTEREST GROUP**  
“Artificial Intelligence and Machine Learning”

**Knowlegde Sharing Session**




**Dr.U.Srinivasalu Reddy,**  
Associate Professor,  
Department of Computer Applications ,  
NIT, Trichy.

**“Recent Trends in Artificial Intelligence  
and Machine Learning”**  
25/10/2024 @ 3.00 PM  
Venue: A518 Cloud Computing Lab

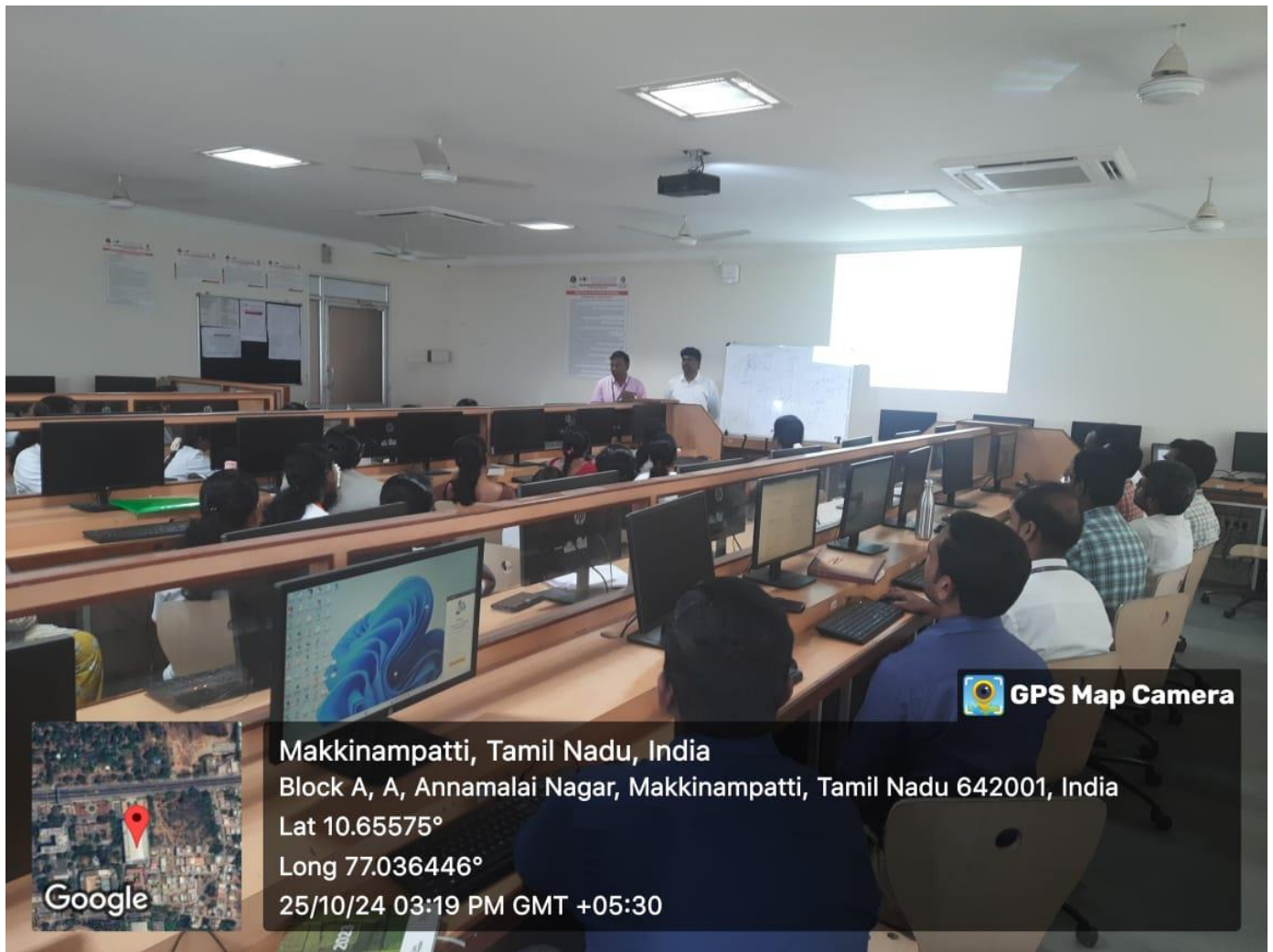
**Organizer(s): 1. Dr.S.Ponni@Sathya, ASP 2. Mrs.G.Saranya, AP**

**All are cordially Invited !!!**

Collaborate, Innovate, Elevate: Research Excellence...



**Photos taken during the Session:**



*S. Prunkaney*

**Dean R&I**

*[Signature]*

**Principal**

**--Sd--  
Secretary**