

**A Report on Online Guest Lecture on  
“Machine Learning Techniques “  
Organized by Department of Computer Science & Engineering  
On 01.05.2024**



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
(UGC-AUTONOMOUS INSTITUTION)  
Madanapalle-517325, Annamayya Dist., Andhra Pradesh

Department of Computer Science & Engineering organizes  
**Guest Lecture on  
“Machine Learning Techniques”**

**Resource Person  
Dr. S. Madhu**  
Professor,  
Department of Computer Science & Engineering,  
GURU NANAK Institutions Technical Campus (AUTONOMOUS), Hyderabad, Telangana.

**Date: 01/05/2024**

Chief Patron: Dr. N. Vijaya Bhaskara Choudary, Ph.D., Secretary & Correspondent  
Patron: Mrs. Keerthi Nadella, Executive Director  
Program Chair: Dr. C. Yuvraj, Principal  
Convener: Dr. R. Kalpana, Professor & Head  
Coordinators: Mr. K. Hazeer Shabbeer Basha, Assistant Professor, CSE; Mr. S. Bhaskar, Assistant Professor, CSE

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**Submitted by: Mr. K. Hazeer Shabbeer Basha, Assistant Professor, Department of CSE**

**Resource person Details: Dr. S. Madhu, Professor, Department of Computer Science & Engineering, GURU NANAK Institutions Technical Campus, Hyderabad.**

**Attendance: 130 participants (Internal)**

**Mode of Conduct: Online**

**Report received on 04.05.2024**

The programme started at 11:00 AM, the entire programme was organized by the Coordinator Mr. K Hazeer Shabbeer Basha, Assistant Professor, Department of Computer Science & Engineering, Madanapalle Institute of Technology & Science, Madanapalle and welcome address was delivered to the gatherings by the Dr. R.Kalpana, HOD/CSE, Madanapalle Institute of Technology & Science, Madanapalle. The resource person Dr. S. Madhu, Professor, Department of Computer Science & Engineering, GURU NANAK Institutions Technical Campus, Hyderabad, Telangana, was introduced by Mr. K. Hazeer Shabbeer Basha, Assistant Professor Department. of CSE.

The resource person started the session by extending his hearty thanks to the participants, organising members, HOD, Principal and Management of MITs madanapalle for giving her opportunity to share his knowledge and experience in “Machine Learning Techniques”.

The following topics were discussed in the session

1. Introduction to Machine Learning.
2. Types of Machine Learning.
3. Core concepts and Learning Process of Supervised, Unsupervised and Reinforcement Learning.
4. Types of Clustering in Unsupervised Learning
5. Components of Generic QA system
6. Data Processing and Exploring structure of Data.
7. Data Quality and Data Remediation
8. Classification and Regression Algorithms (KNN, Random Forest, SVM, Simple and Multiple Linear Regression)
9. Summary



### **Outcomes of Guest Lecture:**

The student will be able to:

- Understand the features of machine learning to apply on real world problems
- Understand a wide variety of learning algorithms
- Understand how to evaluate models generated from data
- Apply the algorithms to a real problem, optimize the models
- Apply structured thinking to unstructured problems
- Understand a very broad collection of machine learning algorithms and problems



The session was concluded at 12.30 PM followed by a vote of thanks, given by Coordinator of the online Guest Lecture Mr. B. Bhaskar, Assistant Professor, Department of CSE, MITS, Madanapalle.