A Report on Online Guest Lecture on
"Deep Learning Techniques for Data Mining, Predictive Maintenance"
Organised by Department of Computer Science & Technology
In association with IEEE, IIIC, IIC-MITS
03.08.2024 (Saturday)

Organized & submitted by: Mr. N. Saikiran Assistant Professor, Department of CST
Resource Person: Dr. A Gayathri, Professor, Dept of CSE, Saveetha School of Engineering, Saveetha University, Chennai.
Participants: III Year CST Department Students.
Attendance: 175 participants (Internal)
Mode of Conduct: Online.
Report Received on 05.08.2024.

Department of Computer Science & Technology, has organized one-day Guest Lecture on **"Deep Learning Techniques for Data Mining, Predictive Maintenance"** in association with IEEE, IIIC, IIC on **03.08.2024**(Saturday), 10:00 AM to 12:00 PM.

Objective:

Deep learning and data mining are two powerful tools that have become indispensable in today's data-driven world. Their synergy allows organizations to extract meaningful insights from vast amounts of data, leading to improved decision-making, innovation, and efficiency. The primary objective of a guest lecture on Deep Learning for Data Mining and Predictive Maintenance is to equip students with a comprehensive understanding of how deep learning can be applied to extract actionable insights from complex industrial data and optimize equipment maintenance strategies.

The Programme Started at 10:00 AM with a welcome address to all the audience by the Mr. N Saikiran, Assistant Professor, Department of CST, MITS, Madanapalle. Later HOD-CST Dr. K. Dinesh and Vice-Principal Administration- Dr. C. Kamala Basha address the gathering.

The resource person started the session by extending her hearty thanks to the participants, organizing members, HOD, Principal and Management of MITS Madanapalle, for giving the opportunity to share her knowledge and experience in **"Deep Learning Techniques for Data Mining, Predictive Maintenance".**

The resource person delivered lecture on the following topics:

- Data Warehouse
- Data Mining
- Traditional Programming Vs Machine Learning
- When Do We Use Machine Learning?
- State of the Art Applications of Machine Learning
- Types of Learning
- Framing a Learning Problem
- Lessons Learned about Learning
- Deep Learning
- Predictive Maintenance

Event Outcomes:

1. Comprehensive understanding of Data Mining.
2. Data Processing and Cleaning.
3. Knowledge of Data Warehouse and OLAP.
4. Understanding Deep Learning fundamentals.
5. Predictive Maintenance Overview.
6. Applications of Deep Learning in Predictive Maintenance.
7. Exposure to real-world challenges and solutions

Vote of Thanks:

The session was concluded at 12:00 PM followed by a vote of thanks, given by **Mr. P. Lakshmiramana**, **Assistant Professor**, Department of Computer Science and Technology.