



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

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18



DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

Report on

**“One Day Online Guest Lecture on Build Your Future in Machine Learning
and Artificial Intelligence”**

On

21-05-2021

Organized & submitted by:

Dr.T.Kalaipriyan, Assistant Professor, Department of CST

Resource Person Details:

Dr.R.Suneetha Rani,

Professor,

HoD, Department of Information Technology,

QIS College of Engineering and Technology (QISCET),

Ongole.

Participants: III Year CST Students

Attendance: 48 participants

Venue: Microsoft-Teams

Mode: Online



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(UGC-AUTONOMOUS INSTITUTION)

Madanapalle-517325, Annamayya Dist., Andhra Pradesh



Organized by Department of Computer Science & Technology



One Day Online Guest Lecture on "Build Your Future in Machine Learning and Artificial Intelligence "

Resource Person
Dr.R.Suneetha Rani
Professor,
HOD,Department of IT
QISCET,Ongole

Date: 21-05-2021

Chief Patron Dr.N.Vijaya Bhaskara Choudary Ph.D. Secretary & Correspondent	Patron Mrs.Keerthi Nadella Executive Director	Program Chair Dr.C.Yuvraj Principal	Convenor Dr.M.Sreedevi Professor & Head. Dept. of CST	Coordinators Dr. T. Kalaipriyan AP/CST
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Department of Computer Science & Technology has organized “One Day Online Guest Lecture on Build Your Future in Machine Learning and Artificial Intelligence” on 21.05.2021 (Friday) in Madanapalle Institute of Technology & Science from 10.00 AM to 05:00 PM.

WELCOME ADDRESS

The event commenced promptly at 10:00 AM with a warm and engaging welcome address to all by Dr.T.Kalaipriyan, Assistant Professor, Department of CST, Madanapalle Institute of Technology & Science (MITS), Madanapalle. The main objective of a “One Day Online Guest Lecture on Build Your Future in Machine Learning and Artificial Intelligence” could be to provide participants with a comprehensive understanding of what Machine Learning and Artificial Intelligence is, how it works, and its potential applications across various industries.



Resource Person Lecture:

Dr.R.Suneetha Rani, Professor, Department of Information Technology, QIS College of Engineering and Technology (QISCET), Ongole , Dr.R.Suneetha Rani. started to explain about Introduction to Machine Learning and Artificial Intelligence:

Resource person discuss about:

- **What is Machine Learning and Artificial Intelligence**
- **How does the Machine Learning and Artificial Intelligence work**
- **Type of data to be considered for Machine Learning and Artificial Intelligence**
- **What are the benefits of Machine Learning and Artificial Intelligence**
- **Machine Learning and Artificial Intelligence Project Ideas**
- **Future Scope of Machine Learning and Artificial Intelligence**

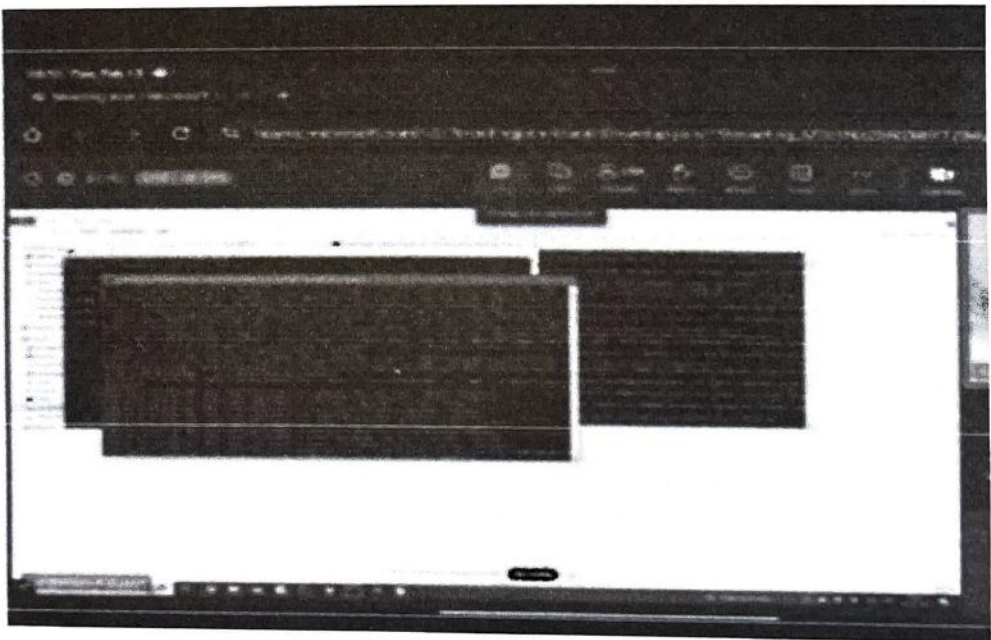
Machine Learning and Artificial Intelligence:

AI involves creating systems that can perform tasks requiring human-like intelligence, while machine learning focuses on algorithms that enable computers to learn from data without being explicitly programmed. Both are revolutionizing industries by enabling tasks like language processing, pattern recognition, decision-making, and more, with applications ranging from healthcare to entertainment.



How does Machine Learning and Artificial Intelligence Work:

In essence, Machine Learning and Artificial Intelligence work by enabling computers to learn from data, recognize patterns, and make decisions without explicit programming. They achieve this through algorithms that process and analyze data to make predictions or perform tasks, mimicking human-like intelligence in various applications across different industries.



Type of data to be considered for Machine Learning and Artificial Intelligence:

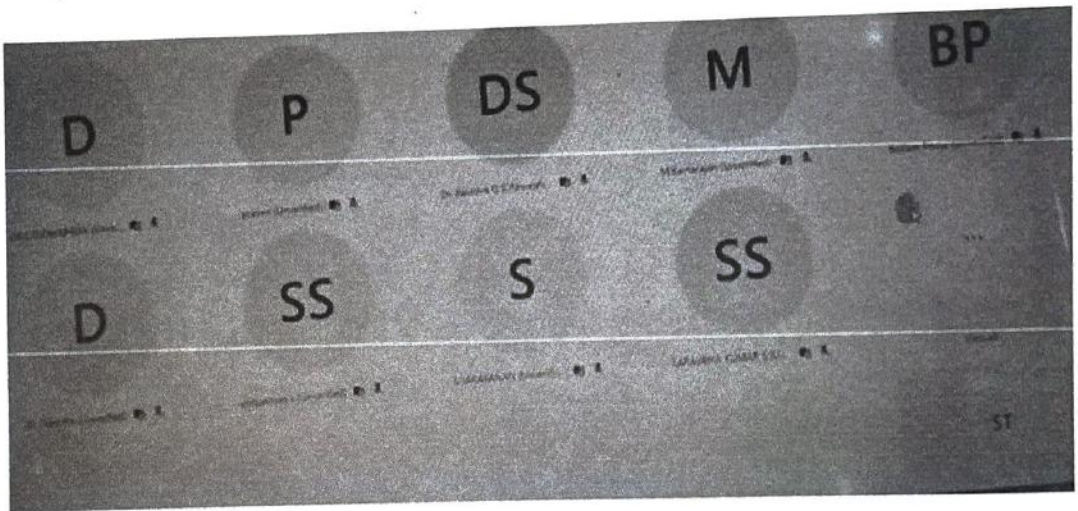
Machine learning and artificial intelligence can handle various types of data, including:

Structured Data: This type of data is organized in a tabular format with rows and columns, often found in databases or spreadsheets. Examples include numerical data like age, income, or temperature, as well as categorical data like gender or product categories.

Unstructured Data: Unstructured data doesn't have a predefined data model or format. Examples include text, images, audio, and video files. Natural language processing (NLP) and computer vision techniques are often used to analyze and extract insights from unstructured data.

Semi-structured Data: This type of data has some structure but doesn't fit neatly into a relational database. Examples include JSON or XML files, where data is organized with some level of hierarchy or tags.

Temporal Data: Temporal data includes a time component, such as time series data collected at regular intervals. Examples include stock prices, weather data, or sensor readings over time.



What are the benefits of Machine Learning and Artificial Intelligence:

Machine learning and artificial intelligence offer numerous benefits across various industries and applications, including:

Automation: ML and AI technologies automate repetitive tasks, leading to increased efficiency and productivity. This frees up human resources to focus on more complex and creative tasks.

Improved Decision Making: ML and AI algorithms can analyze large datasets and extract insights to support decision-making processes. This leads to more informed and data-driven decisions, resulting in better outcomes.

Personalization: ML and AI enable personalized experiences for users by analyzing their preferences, behavior, and past interactions. This leads to tailored recommendations, content, and services, enhancing user satisfaction and engagement.

Healthcare Advancements: ML and AI have revolutionized healthcare by enabling early disease detection, personalized treatment plans, medical image analysis, drug discovery, and remote patient monitoring.

Vote of thanks

The guest lecture formally concluded with a vote of thanks delivered by **Dr.T.Kalaipriyan, Assistant Professor, Department of CST**. In his address, he expressed sincere gratitude to resource person for taking the time to share his expertise and inspire our students.

Outcomes:

At the end of Program, Students can able to,

1. Enhanced Learning Opportunities: Students can explore ML and AI concepts through courses, projects, and hands-on experiences, expanding their knowledge and skill set.
2. Career Opportunities: ML and AI skills are in high demand across industries, offering students diverse career paths in fields such as data science, , research, and more.
3. Problem-Solving Skills: Studying ML and AI encourages critical thinking and problem-solving skills as students tackle complex problems and design innovative solutions.
4. Access to Cutting-Edge Technologies: Students gain access to state-of-the-art tools, algorithms, and platforms used in ML and AI research and applications, preparing them for the future workforce.



HOD/CST

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