



**MADANAPALLE INSTITUTE OF
TECHNOLOGY & SCIENCE
(UGC-AUTONOMOUS)**

Affiliated to JNTUA, Anantapur & Approved by AICTE, New Delhi
Recognised Research Center
Accredited by NBA for CSE, ECE, EEE & ME
World Bank funded Institute
Recognised by UGC under the sections 2(f) and 12(B) of the UGC act 1956
Recognised as Scientific & Industrial Research Organization by DSIR of DST

Department of Computer Science & Technology

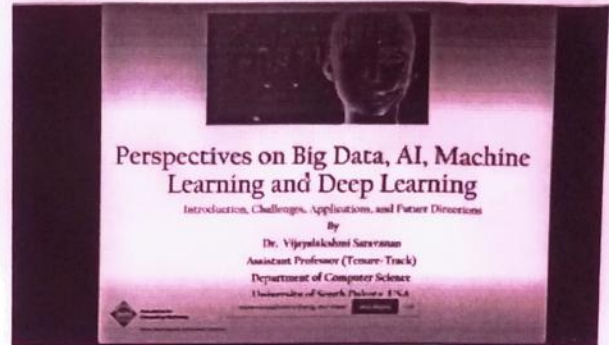
Report

ACM Sponsored an International Colloquium - Distinguished Speaker Program on "Perspectives on Big Data, Machine Learning and AI" on 05.02.2022

The Department of Computer Science & Technology of Madanapalle Institute of Technology & Science (UGC – Autonomous) organized the ACM Sponsored Distinguished Speaker Program on "Perspectives on Big Data, Machine Learning and AI" on 05.02.2022. 60 Participants belonging to the Department of Computer Science and Technology attended the workshop. Dr.M.Sreedevi, Professor and Head, Department of Computer Science & Technology welcomed the gathering.

The session was handled by Dr. Vijayalakshmi Saravanan who is currently working as Assistant Professor, Computer Science, at the University of South Dakota. She is also a Distinguished speaker of ACM. She explained the various perspectives of Big Data, Machine Learning and AI. She clearly differentiated between data science and big data. The evolution of big data and its importance were elaborated using a case study on social media. She also discussed the concept of big data with Covid 19 scenario. The features of AI, Machine Learning and Deep Learning were delivered. She clarifies the queries of the participants and the session was concluded.

Screenshots of the event



What is Data Mining? Why? Commercial Viewpoint

- Lots of data is being collected and warehoused
 - Web data
 - Yahoo has Peta Bytes of web data
 - Facebook has billions of active users
 - purchases at department/grocery stores, e-commerce
 - Amazon handles millions of visits/day
 - Bank/Credit Card transactions
 - Computers have become cheaper and more powerful
 - Competitive Pressure is Strong
 - Provide better, customized services for an edge (e.g. In Customer Relationship Management)

Logos for Yahoo!, Facebook, Google, and Amazon.com are visible.

Life Cycle of Data Science

Data Science Is Multidisciplinary

Data Science Life Cycle

Examples

<ul style="list-style-type: none"> The time needed to fill a soft drink vending machine The tensile strength of wrapping paper Percent germination of begonia seeds The mean litter weight of test rats Maintenance cost of tractors The repair time for a computer 	<ul style="list-style-type: none"> The number of cases needed to fill the machine The percent of hardwood in the pulp batch The intensity of light in an incubator The litter size The age of the tractor The number of components which have to be changed
---	---

In each case, the statement can be read as; **Y is a function of X.**

How Machine learning helps in COVID-19?

```

    graph TD
      A[Identify who is most at risk] --> B[Diagnose patients]
      B --> C[Develop drugs faster]
      C --> D[Predict the spread of the disease]
      D --> E[Understand viruses better]
      E --> F[Map where viruses come from]
      F --> G[Predict the next pandemic.]
  
```