

GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)

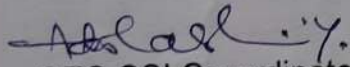
Seshadri Rao Knowledge Village, Gudlavalleru

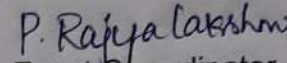
Department of Information Technology

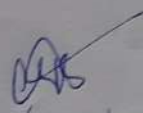
Date: 29-12-2020

NOTICE

All the III B.Tech IT students are informed that the Department of Information Technology is organizing a **Guest Lecture** on “**Introduction to Deep Learning**” by **Dr. K. Venkateswara Rao**, Assistant Professor of CSE, NIT Warangal in association with GEC CSI student branch on 30th December 2020 from 1:00 PM to 4:00 PM through online in Microsoft Teams. All of you are requested to attend the event without fail.


GEC CSI Co-ordinator
(Dr.Y.Adilakshmi)


Event Co-ordinator
(Ms.P.Rajya Lakshmi)


HoD, IT
(Dr.Ch.Kavitha)

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P. Rajya Lakshmi	Joined	12/30/2020, 6:21:32 AM
venkat (Guest)	Joined	12/30/2020, 6:22:48 AM

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DEPARTMENT OF INFORMATION TECHNOLOGY

An Online Guest Lecture On "INTRODUCTION TO DEEP LEARNING"

Objective:

To impart know about the introduction to Deep Learning and Neural Network basics.

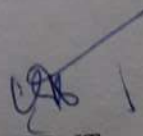
Outcome:

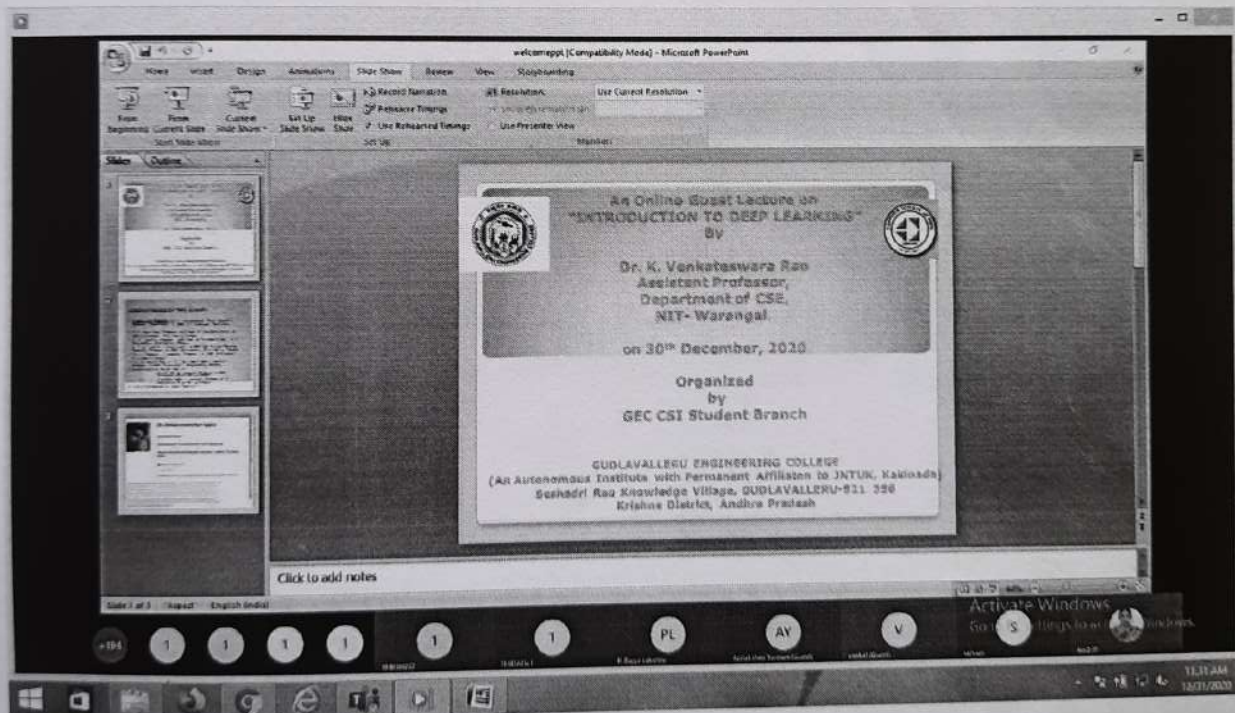
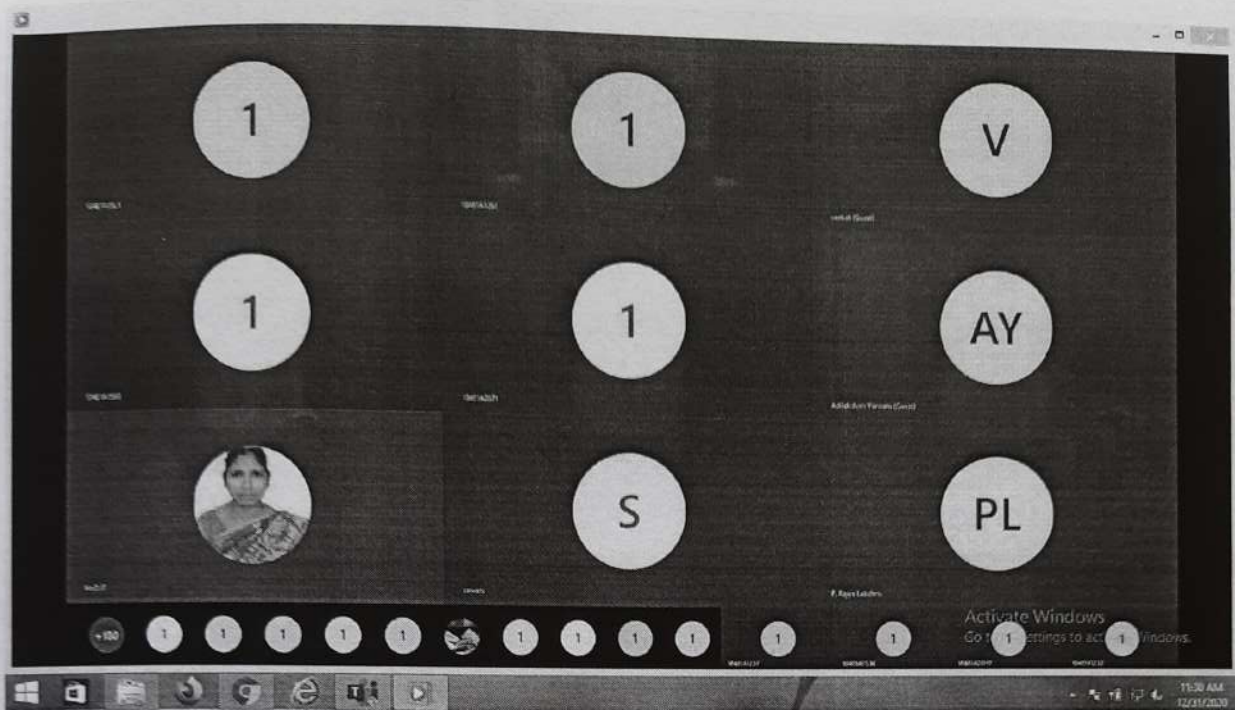
Students will be able to learn basics of Deep Learning, Artificial Intelligence, Machine Learning .

Content covered:

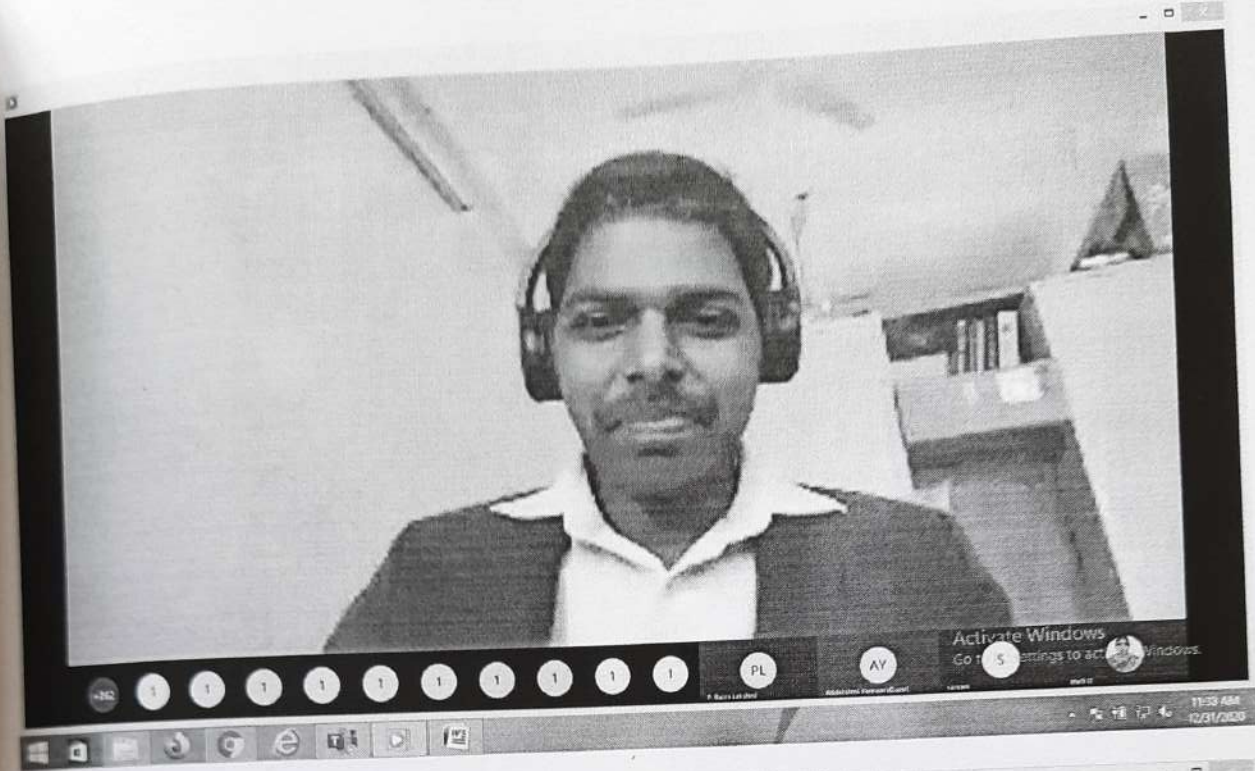
S. No	Date	Target Audience	No. of Students Attended	Resource Person	Topics Covered
1	30-12-2020	III B.Tech. IT	109	Dr. Venkateswara Rao Kagitha, Assistant Professor Department of Computer Science And Engineering National Institute of Technology, Warangal- 506004. Telangana, India.	<ul style="list-style-type: none">• AI Vs Machine Learning Vs Deep Learning• Introduction to Deep learning• Applications of Deep learning• Neural network basics<ul style="list-style-type: none">▪ Machine learning basics<ul style="list-style-type: none">✓ Gradient descent✓ Regularization▪ Shallow neural network▪ Deep neural network▪ Forward propagation▪ Backward propagation• Machine learning model Vs. CNN• Drawbacks of fully connected neural network!!• Convolution neural network<ul style="list-style-type: none">▪ Convolution▪ Padding▪ Stride▪ Pooling• Classic Nets• Applications of CNN

P. Rajyalakshmi,
Event Co-ordinator


HOD, IT



12/31



Introduction to Deep Learning and Neural Networks Basics

Venkateswara Rao Kagita
Asst. Professor
NIT Warangal

The diagram illustrates the relationship between Artificial Intelligence, Machine Learning, and Deep Learning. It features a profile of a human head on the left, with a brain containing a circuit-like neural network. Dashed lines extend from the brain to three categories on the right: Artificial Intelligence (top), Machine Learning (middle), and Deep Learning (bottom). Each category is accompanied by various icons representing its field. At the bottom of the diagram, there is a 'Stop sharing' button and a 'Hide' button.

Note: Slides are compiled from various online sources with great acknowledgment to all those who made the content freely available on the web.

11:33 AM
12/31/2020

PRL

PROGRAM REPORT

Name of the Program : Workshop on "Guest Lecture on Introduction To Deep Learning"

Dates : 30-12.2020

Details of the Resource Person : Dr. K. Venkateswara Rao,
Assitant Professor, NIT
Warangal

Objective of the Program:

- To let students know how to discover patterns in their data and then make predictions based on often complex findings to answer business questions, detect and analyse trends and help solve problems.

Outcomes of the Program:

- Students know how to ingest and process unstructured data, like text and images, and it automates feature extraction, removing some of the dependency on human experts.

No. of Participants : 120

Concluding Remarks : Deep learning is a type of machine learning and artificial intelligence (AI) that imitates the way humans gain certain types of knowledge. Deep learning is an important element of data science, which includes statistics and predictive modeling.


Coordinator


HoD, IT