SRI VENKATESWARA COLLEGE OF ENGINEERING PENNALUR, SRIPERUMBUDUR-602117 (An Autonomous Institution)

Department of Information Technology

REPORT ON INSIGHTS INTO DEEP LEARNING

Speaker: Dr. M. K. Sandhya, Professor/CSE, Meenakshi Sundararajan Engineering College, Chennai

Date: 29/01/2021

Time: 10.00 AM

Objectives

To get an exposure about Introduction to Artificial Intelligence, Machine Learning and Data Science Life Cycle.

- To know Deep Learning in the context of Artificial Intelligence.
- To identify the difference between Machine Learning and Deep Learning.
- To Understand about Neural Networks and Neural Network Playground (playground.tensorflow.org).
- To get exposure on Convolutional Neural Networks and its application in text classification.

About the programme

Deep learning has emerged as an efficient function approximation technique for high-dimensional spaces, and presents a fast solution to the inverse problem, yet the science of its implementation in similarly defined problems remains largely unexplored. The breakthroughs in deep learning have led to a paradigm shift in artificial intelligence and machine learning. On the one hand, numerous old problems have been revisited with deep neural networks and huge progress has been made in many tasks previously seemed out of reach, such as machine translation and computer vision. In recent years, deep learning methods have received a massively increasing amount of attention due to their almost human-level performance on high-level vision tasks like semantic segmentation, object classification and automatic image captioning. These methods have also shown to be competitive with current state-of-the-art methods for low-level vision tasks like denoising and inpainting. Despite their impressive performance, deep learning methods still lack a unified theoretical foundation and understanding. Low-level vision tasks can, on the other hand, also be addressed by methods that do have a very strong theoretical foundation **Benefits**

- Faculty & Students were exposed to the concepts of Deep Learning, Neural Networks, Convolutional Neural Networks and their applications.
- This guest lecture benefitted both students and faculty who are doing their research work in the above area as well as motivational talk to third year students who may start their research in Deep learning.

Coordinators

Dr.V.M.Sivagami,Associate Professor/IT Mr.V.Rajaram,AP/IT

SCREENSHOTS





