## About the Course:

Deep Learning is a foundational program that will help you understand the capabilities, challenges, and consequences of deep learning and prepare you to participate in the development of leading-edge AI technology. It has necessary to have interactive environments to create software applications and this fact becomes very important when you work in the fields of Data Science, engineering, and scientific research. The Python Spyder IDE has been created for the same purpose. In this, you will be learning how to install and make use of Spyder or the Scientific Python and Development IDE. It provides real-time code introspection (The ability to examine what functions, keywords, and classes are, what they are doing and what information they contain). Spark makes use of the concept of RDD to achieve faster and more efficient MapReduce operations. Here you will learn how MapReduce operations take place and why they are not so efficient.

## Course Objectives:

This course introduces major deep learning algorithms, the problem settings, and their applications to solve real world problems. Identify the deep learning algorithms which are more appropriate for various types of learning tasks in various domains. Implement deep learning algorithms and solve real-world problems. There are a few reasons for this, It is versatile and easy to learn and use it allows for multiple ways to handle inputs and outputs. This makes it especially easy and fast to explore data it has built-in support for scientific computing tasks: SciPy, NumPy, Pandas, and a vast number of other libraries created by and for scientists. It is the most widely used programming language for Machine Learning (including Keras and Tensor Flow) It has excellent libraries for plotting It can be integrated with Jupyter Notebooks and implementations of these in the cloud. Various aspects of code writing can be implemented through IDEs like compiling, debugging, building executables, editing

source code, etc. Python is a widely used language by coders, and Python IDEs help in coding & compiling easily.

## Expected Outcomes:

Understand and analyze Applications of Deep Learning to NLP. Spyder is a Scientific Integrated Development Environment written in Python, and designed by and for scientists, engineers, and data analysts. It features a unique combination of the advanced editing, analysis, debugging, and profiling functionality of a comprehensive development tool with the data exploration, interactive execution, deep inspection, and beautiful visualization capabilities of a scientific package. Together with Python, it provides a very complete set of tools for scientific computing. Implement deep learning algorithms, understand neural networks and traverse the layers of data    Understand the topics such as convolutional neural networks, recurrent neural networks, training deep networks and high-level interfaces. You can find the redundant variables, errors, and syntax issues in your code without even compiling it in Spyder via the static code analysis feature. It is also integrated with many DS packages like NumPy, SciPy, Pandas, IPython, etc. to help you in doing data analytics.

Resource Person:
**Mrs. B. Geetha,**
Assistant Professor,
Department of CSE.

Co-ordinator:
**Mrs. P. Prathima,**
Assistant Professor,
Department of CSE.
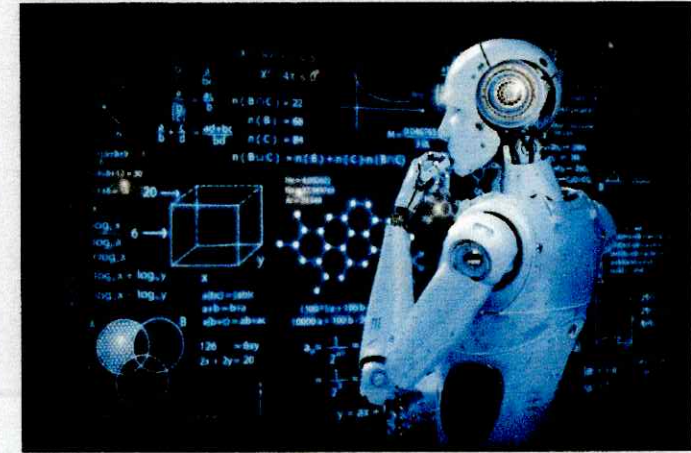Contact No: +91 9703 598 700

# VIGNAN'S
## INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
(Sponsored by Lavu Educational Society)
Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.
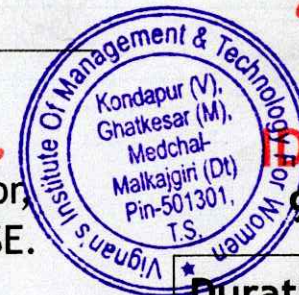**Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301**

## ADD-ON COURSE ON

# "DEEP LEARNING USING SPYEDER IDE ENVIRONMENT"
## 9ᵀᴴ TO 14ᵀᴴ JUL, 2018

**Duration of the Course: 30 Hrs**

Venue:
**'A'-Block Seminar Hall, VMTW.**

PRINCIPAL
Vignan's Institute of Management & Technology For Women
Kondapur (V), Ghatkesar (M), Medchal-Malkajgiri (Dt), Organized By:
Telangana State

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING