

Deep Learning – 1 Week

Module 1 - Introduction

- Introduction to Deep Learning
- Deep Learning vs Machine Learning
- Different techniques
- Installing Tensorflow | Keras

Module 2 - Introduction to Artificial Neural Network (ANN)

- Artificial Neural Networks (ANNs): Concept
- Activation Functions
- Feed Forward Neural Networks
- Back Propagation
- Cost Functions

Module 3 - Introduction to Convolutional Neural Network (CNN)

- Introduction to CNN
- Working of CNN
- Convolutional Layer | Pooling | Flatten

Module 4 - Introduction to Recurrent Neural Network (RNN)

- Introduction to RNN
- Introduction to LSTM
- RNN vs LSTM

Module 5 - Model Performance Metrics

- Confusion Matrix
- Precision Score | Recall Score | F1 – Score
- Overfitting and Underfitting
- Learning rate | Batch Size
- Outliers

Highlights & Projects

- Concept of Neural Networks
- Activation Functions
- MNIST Handwritten Digit Prediction
- Google Stock Price Prediction
- Spam Email Detection
- Daily Recordings will be provided
- Completely Hands On Session