

Course Description

MACHINE LEARNING USING PYTHON

TOPICS TO BE COVERED

1. INTRODUCTION

- Supervised unsupervised Machine Learning and Reinforcement Learning
- ANN Architecture
- DL Architecture and Framework
- Application areas of DNN

2. CONVOLUTION NEURAL NETWORK

- CNN Architecture and Convolution layer
- Handwriting Digital Classification using

3. DEEP LEARNING MODELS WITH TENSOR FLOW & KERAS

- Building Deep Learning Models
- Digital Classifier
- DL for Face Recognition
- Deep Learning for Speech Processing
- Emotion Recognition

Who Should Join

Faculties, Students, and
Industry Professionals

DATA ANALYTICS

TOPICS TO BE COVERED

- Introduction to R Studio
- Data Structure in R
- Loading Data into R
- Working with Packages
- Cleaning of Data and Visualisation
- Probability and statistical parameters from data
- Relationship among variables
- Bayesian Methods
- Time series Analysis of data
- Regression models
- Classification of data
- Clustering analysis
- Neural Network Models
- Evaluating and Improving model performance

NATURAL LANGUAGE PROCESSING

TOPICS TO BE COVERED

- Introduction of Natural Language Processing
- Tokenization
- Stemming Lemmatization
- Deviding Text Data into Chunks
- Bag of words Model
- Building a category predictor
- Constructing a gender identifier
- Sentiment Analysis
- Topic Modeling using Latent DirichletAllocation

CLOUD COMPUTING

TOPICS TO BE COVERED

- Introduction of Cloud Computing
- Cloud Models
- Cloud Characteristics and capacity planning
- Workflow Scheduling
- Resource Provisioning
- Introduction to Amazon Web Services(AWS)
- Introduction to Google Cloud Platform(GCP)
- Miscellaneous Topics