

Machine Learning (Value Added Course)

COURSE OBJECTIVES

- To compare and contrast pros and cons of various machine learning techniques and to get an insight of when to apply a particular machine learning approach.
- To mathematically analyse various machine learning approaches and paradigms.
- Distinguish between, supervised, unsupervised and semi-supervised learning.
- Apply the appropriate machine learning strategy for any given problem.

COURSE OUTLINE

- Scientific Computing with Python - Numerical Python (NumPy)
- Data Analysis Workflow in Python using Pandas
- Introduction to Sklearn Library & Functions
- Data Manipulation in Python
- Visualization in Python(matplotlib)
- Data preprocessing
- Basic concepts of Machine Learning
- KNN concept and implementation
- Linear Regression
- Support Vector Machine
- Naïve Bayes Algorithm
- Image processing
- Artificial Neural Networks with Case Study

CARRER OPPORTUNITIES

- Machine Learning Engineer
- Data Engineer/Data Architect
- Data Analyst
- Data Scientist