

## MACHINE LEARNING

### ADVANCED Python - USAGE AND IMPLEMENTATION

#### Getting Started with Python

- Python Overview
- About Interpreted Languages
- Advantages/Disadvantages of Python pydoc
- Starting Python
- Interpreter PATH
- Using the Interpreter
- Running a Python Script
- Python Scripts on UNIX/Windows, Editors and IDEs

#### Machine Learning USING PYTHON

- ML Fundamentals
- ML Common Use Cases
- Understanding Supervised and Unsupervised Learning Techniques
- Clustering
- Similarity Metrics
- Distance Measure Types: Euclidean, Cosine Measures
- Creating predictive models
- Understanding Process flow of Supervised Learning Techniques
- Decision Tree Classifier
- How to build Decision trees
  
- Random Forest Classifier
- What is Random Forests
- Features of Random Forest
- Out of Box Error Estimate and Variable Importance
  
- Naive Bayes Classifier
- Various approaches to solving a Data Science Problem
- Pros and Cons of different approaches and algorithms
- Linear Regression
  
- Logistic Regression
  
- Text Mining
- Sentimental Analysis

