

Data Science Training Syllabus

Predictive Analytics and Machine learning Using python

Introduction

Installation Guide and Interface used for class Basic of programming and file handling

Data Types: in Python and their usages Numeric, String, List, Tuple, and Dictionary

List in Python
Creating List and Sub-list Indexing and incing list
List Manipulation
Functions used on list

Decision Making Statement in Python

If and nested if While loop For loop Break and Continue Statement

User defined function

Manipulation using User Defined functions

Modules Introductions

"Numpy module

"Pandas module

Extraction in Python Text file, Csv file, Excel file,

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Other data files

Descrip tive Statistics Using Python

Central Tendency, Variability etc

Correlation

Regression
Different Regression Types
Model Validation

Cluster Analysis

PCA(Principal Component Analysis)
Random Forest using Python
Support Vector machine (SVM) Gradient Boosting (GBM)

Deep learning - Neural Network (ANN)

Tableau for Analyst

Overview of Tableau Tableau Desktop/Online/Server WhyTableau?

Data Preparation for Tableau

Data Cleaning, Handling Missing Values, Formatting, applying filters etc.

Connecting Data from External Source

Extractions of Data from File such as CSV, MS Excel, Access, Text file , SAS, Tableau extract etc.

Extraction of Data from a Server Such as Tableau Server etc.

Integrating Data



Data Blending, Joining of tables

Visualizing your Data using Charts

Creation of Various Charts such as Pie Charts, Bar Charts, Scatter Plots, and Combo charts etc.

Sorting, Grouping, Dual Axis, Aliases, Pivot Tables, Total Subtotals, Drill Down and Across, Trend lines, advanced options etc.

Visualizing your Data using Dashboards

Creation of Interactive Dashbbards

Calculated Fields and Analytics

Combining multiple visualization Dashboards

Story Formation

Assignments and Case Study Projects:

5 Projects have to be completed