TRAINING PROGRAM

This program guide to Building a career in

Data Analytics

PYTHON

jupyter python™ git

COURSE CONTENT

A streamlined range of courses with hands-on-experience to help you learn and implement data analytics for career or businessgrowth.

Tools and Techniques in Data Science

What is Data Analytics and Data Science?
Introduction to Data Science
Introduction to Data Driven Decision Making
Introduction to Data Science Platforms for Data solving

Course: Introduction to Python

Part 1:Data Structures
Introduction to Jupyter Other Python Interfaces Data Structures, Strings, Datetime, Numeric, Lists,Tuple Dicts, Loops, Functions, Classes
Part 2: Scienti c Packages of Python
Using functions from Packages in Python, Math Package Date time Package,OS Package,SciPy

Course: Data Analytics using Python

Introduction to Pandas
Introduction to Pandas, Data Import, Data Inspection, Data Quality, Data Manipulation
Using Pandas for Data Analysis
Data Manipulation, Data Querying, Data Summarizing, Data Exploration, Data Merging

Course: Data Visualization using Python

Data Visualization using Python
Concepts in Data Viz, Grammar of graphics, Tufte and Data Viz, Seaborn and Matplotlib

Course: Machine Learning using Python

Using scikit-learn for supervised learning
Parameter tuning, Diagnostics,
Over tting,Plotting,Data Preprocessing
Using scikit-learn for unsupervised learning

Course: Advanced Data Analytics Techniques using Python

Time Series Analysis, Text Mining, Sentiment Analysis Social Network Analysis, Deep Learning, Neural Networks

Applied Statistics for Data Analysts

Basic Statistics
Central Tendency, Dispersion, Central Limit Theorem, Normalization
Advanced Statistics
Distributions, Probability, Bayes Theorem, Hypothesis Testing

Projects (2 Weeks)

- Slice and dice datasets like Wikipedia to extract valuable insights, and apply the major techniques required by a Data Analyst