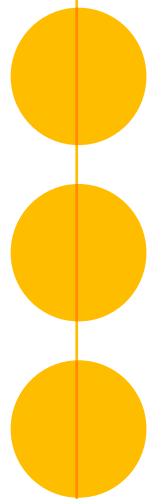




TRAINING PROGRAM

*This program guide to
Building a career in
Data Analytics*

PYTHON



python™



git

COURSE CONTENT

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

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: Scientific 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 fitting, 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