Syllabus of Python

 Introduction and Set Up (Setting Up Your Integrated Analysis Environment & Tools Overview) IPython Shell Custom environment settings Jupyter Notebooks Script editor Packages: NumPy, SciPy, scikit-learn, Pandas, Matplotlib, Seaborn, etc.

Using Python to Control and Document Your Data Science Processes
(Python Essentials)
Data types and objects
Loading packages, namespaces
Reading and writing data
Simple plotting
Control flow
Debugging
Code profiling

 Accessing and Preparing Data (Acquiring Data with Python)
Loading from CSV files
Accessing SQL databases

 Cleansing Data with Python Stripping out extraneous information Normalizing data Formatting data
Numerical Analysis, Data Exploration, and Data Visualization with NumPy Arrays, Matplotlib, and Seaborn (NumPy Essentials)
The NumPy array
N-dimensional array operations and manipulations 35

Memory mapped files Data Visualization

2D plotting with Matplotlib Advanced data visualization with Seaborn

4 Exploring Data with Pandas

Searching for Gold in a Pile of Pyrite Data manipulation with Pandas Statistical analysis with Pandas Time series analysis with Pandas

📥 Machine Learning

Predicting the Future Can Be Good for Business Input: 2D, samples, and features Estimator, predictor, transformer interfaces Pre-processing data Regression Classification Model selection

📥 GUI Tool Working

Introduction to Tkinter Working with Components Interactive component Development Data loading & Visualisation Data integrity with tkinter

📥 Database Working

Python to Mysql connectivity Data loading and plotting's from MYSQL Data acquisition and visualisation with SQL Big data Manipulation 35