

## **Data Analytics Using Python**

(Prereq: Should have completed Introduction to Python course. An equivalent course completed from other training providers or school/college is acceptable with a testout)

### **Day -1 ( lecture - 3 hrs**

#### **hands-on practice - 3 hrs)**

- Learn NumPy Module and its ndarray structure
- Learn broadcasting as applied to NumPy Arrays
- Learn Pandas module and its Series structure

### **Day -2 ( lecture - 2 hrs**

#### **hands-on practice - 3 hrs)**

- Learn DataFrame structure in Pandas
- Understand file reading and writing using Pandas
- Learn how to derive summary statistics using Dataframes
- Understand Data Cleaning techniques
- Understand running queries on Dataframes

### **Day -3 ( lecture - 2 hrs**

#### **hands-on practice - 3 hrs)**

- Understand techniques for joining Datasets
- Learn creating simple visualization using Matplotlib
- Learn creating simple visualization using Seaborn

**Note:** Although the syllabus is shown with Day -1 through Day -3 breakup, that works for full 3 day continuous programs, the same syllabus could also be delivered for part time courses by following the same sequence of instructions and hands-on labs.

Reference:

<https://ebooks.mobibootcamp.com/py-libs/index.html>