

## Python for Data Science

Duration: 2 days

### 1. Introduction to Python

- Welcome
- Hello Python!
- Variables
- Datatypes

### 2. List - A Data Structure

- Python Lists
- Sub setting Lists
- Manipulating Lists

### 3. Functions and Packages

- Introduction to Functions
- Functions
- Methods
- Difference between functions and methods
- Packages

### 4. Numpy and Big Datasets

- Introduction to Numpy - Numerical Python
- Numpy
- 2D Numpy Arrays
- Basic Statistics with Numpy

## 5. Data Visualization with Matplotlib

- Introduction to Marplotlib package
- Basic Plot with matplotlib
- Line chart
- Scatter plot
- Histograms
- Customization

## 6. Pandas & DataFrame

- Introduction to Pandas Package
- Pandas and data frame
- Boolean Logic and Control Flow
- Pandas

## 7. Conclusion

- QA
- Useful Resources
- Feedback