

Data Analytics With Python

Python for Data Scientists

Course Outline:

- **Python language Overview**
 - Basics of Python language
 - How to edit, run, and test python code
 - Introducing the Anaconda distribution of Python.
 - IDEs
 - Using Jupyter notebooks.
- **Pandas**
 - Series and Dataframes
 - Loading data using Pandas
 - Labs
- **NumPy and SciPy**
 - Arrays
 - Matrices
 - Linear Algebra
 - Labs
 - Visualizing data with matplotlib
- **Doing Data Science with Scikit-learn**
 - Introducing Scikit-Learn
 - Clustering Data
 - Building a Classifier

- **Big Data With PySpark**
 - Introduction to Spark and PySpark
 - Using the Spark framework for Big Data
 - Using MLlib or Data Science in PySpark