COURSE SYLLABUS

Python for Finance Bootcamp

Use Python for financial analysis. Retrieve data from APIs and SEC filings, analyze financial ratios, and explore risk analysis and Monte Carlo simulations.

> Group classes (NYC) and onsite training are available for this course. For more information, email corporate@nobledesktop.com or visit: https://training-nyc.com/courses/python-finance-bootcamp



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Course Outline

Introduction to Python

- Variables
- Numeric Data Types: Int & Float
- Sequential Types: Str & List
- Definite Loops: For loops
- If-Elif-Else Statements
- Data Types: Tuples
- Build Mortgage Calculator with Python

Advanced Python

- Creating Custom Functions
- Indefinite Loops: while loops
- Data Types, Dictionary and Set
- Slicing Data Types
- Reading txt files with Python
- Analyze data from text and csv file

Numerical Python & Pandas

- NumPy Array
- Broadcasting and U-Functions
- Introduction to Pandas
- Series, DataFrame, Panel
- Manipulate live S&P data from https://www.sectorspdr.com/sectorspdr/

Data Manipulation

- 5 ways to create a DataFrame
- Slicing and Filtering DataFrame
- Lambda

- Run If and Else scenarios
- Gather and Manipulate Data with Pandas
- Analyze business data from csv files

Data Extraction & Analysis

- Get live data from APIs
- Plot data with Matplotlib
- Merge and Concat Data
- Groupby in Pandas
- What if logic in Finance with Pandas