

Python for Finance Bootcamp

Master the major Python financial libraries to gather and manipulate financial data. Use APIs to fetch financial, company, and economic data. Analyze financial statements from the SEC website, including ratios derived from the income statement and balance sheet. Build risk management models and apply linear regression to predict stock prices.

Group classes in NYC and onsite training is available for this course. For more information, email hello@nobledesktop.com or visit: <https://www.nobledesktop.com/classes/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