

# Python for Finance Immersive

Upskill and take your finance skills to the next level with this Python for Finance class. You'll learn to analyze large amounts of financial data using Python, create visualizations, and start using statistics for predictive modeling.

Group classes in NYC and onsite training is available for this course. For more information, email [hello@programwithus.com](mailto:hello@programwithus.com) or visit: <https://programwithus.com/classes/python-finance-immersive-nyc>



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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