

Getting Started with Python for Finance

With Matt Harrison

Use the terms and definitions below to understand concepts taught in the course.

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Term	Definition
Aggregation Methods	Techniques in data processing used to combine multiple data points to produce a summary statistic, such as mean, median, or sum.
Cumulative Returns	Represents the total return of an investment over a certain period of time, calculated as (current price - original price) / original price.
Candlestick Plot	A type of financial chart that represents the price movements of a security, showing open, high, low, and close values for a specific time period.
Exponential Moving Average (EMA)	A type of moving average that gives more weight to recent prices in order to reduce lag and better capture the trend of a data set.
Jupyter	An open-source interactive computing environment that enables users to write and execute code in an iterative, cell-based format.
Lambda Function	An anonymous function defined with the lambda keyword in Python, used for short, throwaway functions that can be defined inline.
Matplotlib	A comprehensive library for creating static, animated, and interactive visualizations in Python.
Multi-Index Columns	A hierarchical indexing scheme in a DataFrame where columns are indexed with more than one level.
NumPy	A fundamental package for scientific computing in Python, supporting large, multi-dimensional arrays and matrices.
On-Balance Volume (OBV)	A technical analysis indicator intended to relate price and volume in the stock market. It uses cumulative volume and price movement to predict stock trends.
Pandas	An open-source data analysis and manipulation library for Python, providing data structures like DataFrame and Series.
Pipe Method	A method in Pandas used to apply chainable functions to series or data frames in a readable and concise way.
Resampling	The process of adjusting the time frequency of time-series data, such as converting daily data to monthly data.
Simple Moving Average (SMA)	An arithmetic moving average calculated by adding recent prices and then dividing the sum by the number of time periods in the average.
Technical Indicators	Calculations based on the price, volume, or open interest of a security used by traders who follow technical analysis.

Volatility	A statistical measure of the dispersion of returns for a given security or market index, often measured with standard deviation.
YFinance	A Python library that offers a way to access financial data from Yahoo Finance, allowing for the retrieval of historical market data.