

# FinTech Bootcamp

At the end of the certificate, students will feel comfortable trading in Excel spreadsheets for Jupyter notebook. Students will leave this course having worked on multiple projects using Python to pull, clean, analyze, and visualize financial data from all different sources.

Additionally, students will learn how to use machine learning to build predictive financial models and export them into PDF or Excel. Lastly, students will gain an understanding of how to organize and find data in SQL.

Group classes in NYC and onsite training is available for this course. For more information, email [contact@nyimtraining.com](mailto:contact@nyimtraining.com) or visit: <https://training-nyc.com/certificates/fintech-bootcamp>



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## Course Outline

This package includes these courses

- Python for Data Science Bootcamp (30 Hours)
- Python Machine Learning Bootcamp (30 Hours)
- SQL Bootcamp (PostgreSQL) (18 Hours)
- Python for Automation (6 Hours)
- Python for Finance Bootcamp (18 Hours)

### Python for Data Science Bootcamp

Learn the fundamentals of Python and object-oriented programming in this 5-day intensive course. You'll gain a solid understanding of Python, with a strong emphasis on using libraries and frameworks for data science.

### Python Machine Learning Bootcamp

Take a step beyond normal programming, into using algorithms that can independently learn patterns and make decisions. Machine learning skills are in high demand, as these algorithms now run the majority of trading on Wall Street and the product recommendations at big companies like Amazon, Spotify, and Netflix.

### SQL Bootcamp (PostgreSQL)

- Explore information stored in a database (tables, columns, rows, etc.) using the graphical interface of DBeaver (a popular free database app)
- Write SQL queries to retrieve data from tables in a database

- Combine information from multiple tables with JOIN statements
- Filter data, group it, and sort it to extract the specific info you need
- Advanced techniques like Subqueries, String Functions, and IF-Else logic with CASE
- How to use Views and Functions with parameters instead of directly querying tables

## Python for Automation

This class will teach students how to scrap and mine the web for any type of data. Whether you are in academics, business, journalism or anything in between - this class will be extremely beneficial. Students will learn two major skills in this course: Python and Webscraping. Students will first be introduced to the most powerful programming language in the world and later learn one of its many libraries. If you are interested in pursuing this skill further, check out our [Python for Data Science Bootcamp](#).

## Python for Finance Bootcamp

In this advanced course, you will cover the major Python financial libraries to gather and manipulate financial data. You will start by working with financial APIs to fetch financial, company, and economic data. We will analyze financial statements from the SEC website, including financial ratios derived from the income statement and balance sheet. You will build a risk management models using Python libraries to create VAR models and Monte Carlo simulation. We will learn how to apply statistical measures such as linear regression to financial uses such as stock prices.