# Machine Learning & Automation for Finance

Learn advanced Python and statistics topics and apply these concepts to build a predictive returns model using real-world financial data. In this course, you'll gain experience in financial statement analysis, data pulling, and making data-driven decisions with Python.

Group classes in NYC and onsite training is available for this course. For more information, email corporate@nobledesktop.com or visit: https://www.nobledesktop.com/classes/finance-machine-learning



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# Course Outline

**Object-Oriented Programming & Introduction to Machine Learning**

- Object oriented programming with Python
- Machine learning for financial decisions
- The baseline model – multiple linear regression
- How to build a linear factor model
- How to predict returns with linear regression

**Predictive Financial Modeling using Python**

- Essential Financial ratios with Python
- Statement Analysis with Python
- Parsing all types of files for data
- How to gather information from different sources (Web, PDF, API)
- Calculating WACC
- Make a decision based on IRR
- Calculation NPV

**Visualization & Automating Reporting**

- Budgeting with Python
- Making Data-Driven Decisions with Python
- Saving your data in CSV, Excel, SQL, PDF
- Data visualization with Python