COURSE SYLLABUS

FinTech Summer Program NYC (High School)

Prepare for a career in finance and technology by learning Microsoft Excel, finance, stock market investing, and Python for data science.

> Group classes (NYC) and onsite training are available for this course. For more information, email hello@nextgenbootcamp.com or visit: https://www.nextgenbootcamp.com/certificates/fintech-summer-program



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Course Outline

This package includes these courses

- Excel, Finance, & Investing Summer Program NYC (High School) (25 Hours)
- Python Data Science & AI Machine Learning Program NYC (High School) (45 Hours)

Excel, Finance, & Investing Summer Program NYC (High School)

Gain a competitive edge in business and finance with this in-person summer program designed for high school students. Through hands-on training in Microsoft Excel and real-world case studies, students will learn to analyze financial data, evaluate companies, and understand the principles behind investing and corporate finance.

- Build beginner-to-advanced Excel skills, including formulas, Pivot Tables, and macros
- Analyze financial data and company earnings using Excel-based modeling techniques
- Learn core investment principles, including stock fundamentals, valuation, and risk
- Understand financial statements and how they work together in real-world scenarios
- Explore accounting concepts like EBITDA, depreciation, and cash flow analysis
- Perform corporate valuation and decide whether a company is a good investment

Python Data Science & AI Machine Learning Program NYC (High School)

In this program, high school students will explore the world of Python programming, data science, and machine learning through hands-on training in NYC. From writing code to building visualizations and predictive models, this course offers a comprehensive foundation in tech-driven problem solving.

- Learn Python fundamentals including data types, conditionals, loops, and functions
- Manipulate and clean real-world data using pandas and NumPy
- Read, write, and process files while working with string methods and structured data
- Visualize data with Matplotlib by creating custom charts, histograms, and plots

- Explore machine learning techniques such as linear regression, classification, and K-nearest neighbors
- Complete a capstone project that demonstrates your ability to analyze and present data insights