



Mastering Python for Finance

By James Ma Weiming

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Mastering Python for Finance By James Ma Weiming

Understand, design, and implement state-of-the-art mathematical and statistical applications used in finance with Python

About This Book

- Explore financial models used by the industry and ways of solving them with this guide
- Discover the various features that Python provides for scientific computing and harness them to enhance your financial applications
- Build state-of-the-art infrastructure for critical aspects such as modeling, trading, pricing, and analytics

Who This Book Is For

If you are an undergraduate or graduate student, a beginner to algorithmic development and research, or a software developer in the financial industry who is interested in using Python for quantitative methods in finance, this is the book for you. It would be helpful to have a bit of familiarity with basic Python usage, but no prior experience is required.

What You Will Learn

- Perform interactive computing with IPython Notebook
- Solve linear equations of financial models and perform ordinary least squares regression
- Explore nonlinear modeling and solutions for optimum points using root-finding algorithms and solvers
- Discover different types of numerical procedures used in pricing options
- Model fixed-income instruments with bonds and interest rates
- Manage big data with NoSQL and perform analytics with Hadoop
- Build a high-frequency algorithmic trading platform with Python
- Create an event-driven backtesting tool and measure your strategies

In Detail

Built initially for scientific computing, Python quickly found its place in finance. Its flexibility and robustness can be easily incorporated into applications for mathematical studies, research, and software development.

With this book, you will learn about all the tools you need to successfully perform research studies and modeling, improve your trading strategies, and effectively manage risks. You will explore the various tools and techniques used in solving complex problems commonly faced in finance.

You will learn how to price financial instruments such as stocks, options, interest rate derivatives, and futures using computational methods. Also, you will learn how you can perform data analytics on market indexes and use NoSQL to store tick data.

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Editorial Review

About the Author

James Ma Weiming

James Ma Weiming works with high-frequency, low-latency trading systems, writing his own programs and tools, most of which are open sourced. He is currently supporting veteran traders in the trading pits of the Chicago Board of Trade devising strategies to game the market. He graduated from the Stuart School of Business at Illinois Institute of Technology with a master of science degree in finance. He started his career in Singapore after receiving his bachelor's degree in computer engineering from Nanyang Technological University and diploma in information technology from Nanyang Polytechnic. During his career, he has worked in treasury operations handling foreign exchange and fixed income products. He also developed mobile applications with a company operating a funds and investments distribution platform.

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