Pawel Lachowicz, PhD

Python
for Quants

Volume

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Sabine Zange

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Python for Finance Yves Hilpisch,2014-12-11 The financial industry has adopted Python at a tremendous rate recently with some of the largest investment banks and hedge funds using it to build core trading and risk management systems This hands on guide helps both developers and quantitative analysts get started with Python and guides you through the most important aspects of using Python for quantitative finance Using practical examples through the book author Yves Hilpisch also shows you how to develop a full fledged framework for Monte Carlo simulation based derivatives and risk analytics based on a large realistic case study Much of the book uses interactive IPython Notebooks with topics that include Fundamentals Python data structures NumPy array handling time series analysis with pandas visualization with matplotlib high performance I O operations with PyTables date time information handling and selected best practices Financial topics mathematical techniques with NumPy SciPy and SymPy such as regression and optimization stochastics for Monte Carlo simulation Value at Risk and Credit Value at Risk calculations statistics for normality tests mean variance portfolio optimization principal component analysis PCA and Bayesian regression Special topics performance Python for financial algorithms such as vectorization and parallelization integrating Python with Excel and building financial applications based on Web technologies **Derivatives Analytics with Python** Yves Hilpisch,2015-06-15 Supercharge options analytics and hedging using the power of Python Derivatives Analytics with Python shows you how to implement market consistent valuation and hedging approaches using advanced financial models efficient numerical techniques and the powerful capabilities of the Python programming language This unique guide offers detailed explanations of all theory methods and processes giving you the background and tools necessary to value stock index options from a sound foundation You ll find and use self contained Python scripts and modules and learn how to apply Python to advanced data and derivatives analytics as you benefit from the 5 000 lines of code that are provided to help you reproduce the results and graphics presented Coverage includes market data analysis risk neutral valuation Monte Carlo simulation model calibration valuation and dynamic hedging with models that exhibit stochastic volatility jump components stochastic short rates and more The companion website features all code and IPython Notebooks for immediate execution and automation Python is gaining ground in the derivatives analytics space allowing institutions to quickly and efficiently deliver portfolio trading and risk management results This book is the finance professional s guide to exploiting Python s capabilities for efficient and performing derivatives analytics Reproduce major stylized facts of equity and options markets yourself Apply Fourier transform techniques and advanced Monte Carlo pricing Calibrate advanced option pricing models to market data Integrate advanced models and numeric methods to dynamically hedge options Recent developments in the Python ecosystem enable analysts to implement analytics tasks as performing as with C or C but using only about one tenth of the code or even less Derivatives Analytics with Python Data Analysis Models Simulation Calibration and Hedging shows you what you need to know to supercharge your derivatives

and risk analytics efforts *Artificial Intelligence in Finance* Yves Hilpisch,2020-10-14 The widespread adoption of AI and machine learning is revolutionizing many industries today Once these technologies are combined with the programmatic availability of historical and real time financial data the financial industry will also change fundamentally With this practical book you ll learn how to use AI and machine learning to discover statistical inefficiencies in financial markets and exploit them through algorithmic trading Author Yves Hilpisch shows practitioners students and academics in both finance and data science practical ways to apply machine learning and deep learning algorithms to finance Thanks to lots of self contained Python examples you ll be able to replicate all results and figures presented in the book In five parts this guide helps you Learn central notions and algorithms from AI including recent breakthroughs on the way to artificial general intelligence AGI and superintelligence SI Understand why data driven finance AI and machine learning will have a lasting impact on financial theory and practice Apply neural networks and reinforcement learning to discover statistical inefficiencies in financial markets Identify and exploit economic inefficiencies through backtesting and algorithmic trading the automated execution of trading strategies Understand how AI will influence the competitive dynamics in the financial industry and what the potential emergence of a financial singularity might bring about The Ultimate Algorithmic Trading System Toolbox + Website George Pruitt,2016-04-22 The accessible beneficial guide to developing algorithmic trading solutions The Ultimate Algorithmic Trading System Toolbox is the complete package savvy investors have been looking for An integration of explanation and tutorial this guide takes you from utter novice to out the door trading solution as you learn the tools and techniques of the trade You ll explore the broad spectrum of today s technological offerings and use several to develop trading ideas using the provided source code and the author s own library and get practical advice on popular software packages including TradeStation TradersStudio MultiCharts Excel and more You ll stop making repetitive mistakes as you learn to recognize which paths you should not go down and you ll discover that you don t need to be a programmer to take advantage of the latest technology The companion website provides up to date TradeStation code Excel spreadsheets and instructional video and gives you access to the author himself to help you interpret and implement the included algorithms Algorithmic system trading isn t really all that new but the technology that lets you program evaluate and implement trading ideas is rapidly evolving This book helps you take advantage of these new capabilities to develop the trading solution you ve been looking for Exploit trading technology without a computer science degree Evaluate different trading systems strengths and weaknesses Stop making the same trading mistakes over and over again Develop a complete trading solution using provided source code and libraries New technology has enabled the average trader to easily implement their ideas at very low cost breathing new life into systems that were once not viable If you re ready to take advantage of the new trading environment but don t know where to start The Ultimate Algorithmic Trading System Toolbox will help you get on board quickly and easily *Python for Algorithmic Trading* Yves Hilpisch,2020-11-12 Algorithmic trading once the exclusive

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Investment Management Trading and Financial Engineering bridges the gap between the theory of mathematical finance and the practical applications of these concepts for derivative pricing and portfolio management The book provides students with a very hands on rigorous introduction to foundational topics in quant finance such as options pricing portfolio optimization and machine learning Simultaneously the reader benefits from a strong emphasis on the practical applications of these concepts for institutional investors Features Useful as both a teaching resource and as a practical tool for professional investors Ideal textbook for first year graduate students in quantitative finance programs such as those in master s programs in Mathematical Finance Quant Finance or Financial Engineering Includes a perspective on the future of quant finance techniques and in particular covers some introductory concepts of Machine Learning Free to access repository with Python codes available at www routledge com 9781032014432 and on https github com lingyixu Quant Finance With Python Code

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level More recently RL DQL and similar methods have gained popularity in publications related to financial research This book is among the first to explore the use of reinforcement learning methods in finance Author Yves Hilpisch founder and CEO of The Python Quants provides the background you need in concise fashion ML practitioners financial traders portfolio managers strategists and analysts will focus on the implementation of these algorithms in the form of self contained Python code and the application to important financial problems This book covers Reinforcement learning Deep Q learning Python implementations of these algorithms How to apply the algorithms to financial problems such as algorithmic trading dynamic hedging and dynamic asset allocation This book is the ideal reference on this topic You ll read it once change the examples according to your needs or ideas and refer to it whenever you work with RL for finance Dr Yves Hilpisch is founder and CEO of The Python Quants a group that focuses on the use of open source technologies for financial data science AI asset management algorithmic trading and computational finance **Artificial Intelligence in Finance** Yves Hilpisch,2020-10-14 The widespread adoption of AI and machine learning is revolutionizing many industries today Once these technologies are combined with the programmatic availability of historical and real time financial data the financial industry will also change fundamentally With this practical book you ll learn how to use AI and machine learning to discover statistical inefficiencies in financial markets and exploit them through algorithmic trading Author Yves Hilpisch shows practitioners students and academics in both finance and data science practical ways to apply machine learning and deep learning algorithms to finance Thanks to lots of self contained Python examples you ll be able to replicate all results and figures presented in the book In five parts this guide helps you Learn central notions and algorithms from AI including recent breakthroughs on the way to artificial general intelligence AGI and superintelligence SI Understand why data driven finance AI and machine learning will have a lasting impact on financial theory and practice Apply neural networks and reinforcement learning to discover statistical inefficiencies in financial markets Identify and exploit economic inefficiencies through backtesting and algorithmic trading the automated execution of trading strategies Understand how AI will influence the competitive dynamics in the financial industry and what the potential emergence of a financial singularity might bring about **Artificial Intelligence in Finance** Yves Hilpisch,2020-11-10 Many industries have been revolutionized by the widespread adoption of AI and machine learning The programmatic availability of historical and real time financial data in combination with techniques from AI and machine learning will also change the financial industry in a fundamental way This practical book explains how to use AI and machine learning to discover statistical inefficiencies in financial markets and exploit them through algorithmic trading Author Yves Hilpisch shows practitioners students and academics in both finance and data science how machine and deep learning algorithms can be applied to finance Thanks to lots of self contained Python examples you ll be able to replicate all results and figures presented in the book Examine how data is reshaping finance from a theory driven to a data driven discipline Understand the major possibilities consequences and resulting requirements of AI

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