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Mastering Python for Finance

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

James Ma Weiming

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Mastering Python For Finance

Jin-Ying Zhang



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Mastering Python for Finance James Ma Weiming, 2019-04-30 Take your financial skills to the next level by mastering cutting edge mathematical and statistical financial applications Key Features Explore advanced financial models used by the industry and ways of solving them using Python Build state of the art infrastructure for modeling visualization trading and more Empower your financial applications by applying machine learning and deep learning Book Description The second edition of Mastering Python for Finance will guide you through carrying out complex financial calculations practiced in the industry of finance by using next generation methodologies You will master the Python ecosystem by leveraging publicly available tools to successfully perform research studies and modeling and learn to manage risks with the help of advanced examples You will start by setting up your Jupyter notebook to implement the tasks throughout the book You will learn to make efficient and powerful data driven financial decisions using popular libraries such as TensorFlow Keras Numpy SciPy and sklearn You will also learn how to build financial applications by mastering concepts such as stocks options interest rates and their derivatives and risk analytics using computational methods With these foundations you will learn to apply statistical analysis to time series data and understand how time series data is useful for implementing an event driven backtesting system and for working with high frequency data in building an algorithmic trading platform Finally you will explore machine learning and deep learning techniques that are applied in finance By the end of this book you will be able to apply Python to different paradigms in the financial industry and perform efficient data analysis What you will learn Solve linear and nonlinear models representing various financial problems Perform principal component analysis on the DOW index and its components Analyze predict and forecast stationary and non stationary time series processes Create an event driven backtesting tool and measure your strategies Build a high frequency algorithmic trading platform with Python Replicate the CBOT VIX index with SPX options for studying VIX based strategies Perform regression based and classification based machine learning tasks for prediction Use TensorFlow and Keras in deep learning neural network architecture Who this book is for If you are a financial or data analyst or a software developer in the financial industry who is interested in using advanced Python techniques for quantitative methods in finance this is the book you need You will also find this book useful if you want to extend the functionalities of your existing financial applications by using smart machine learning techniques Prior experience in Python is required

Mastering Python for Finance James Ma Weiming, 2015-04-29 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

Mastering Python for Finance - Second Edition James Weiming, 2019 Take your financial skills to the next level by mastering cutting edge mathematical and statistical financial applications Key Features Explore advanced financial models used by the industry and

ways of solving them using Python Build state of the art infrastructure for modeling visualization trading and more Empower your financial applications by applying machine learning and deep learning Book Description The second edition of Mastering Python for Finance will guide you through carrying out complex financial calculations practiced in the industry of finance by using next generation methodologies You will master the Python ecosystem by leveraging publicly available tools to successfully perform research studies and modeling and learn to manage risks with the help of advanced examples You will start by setting up your Jupyter notebook to implement the tasks throughout the book You will learn to make efficient and powerful data driven financial decisions using popular libraries such as TensorFlow Keras Numpy SciPy and scikit learn You will also learn how to build financial applications by mastering concepts such as stocks options interest rates and their derivatives and risk analytics using computational methods With these foundations you will learn to apply statistical analysis to time series data and understand how time series data is useful for implementing an event driven backtesting system and for working with high frequency data in building an algorithmic trading platform Finally you will explore machine learning and deep learning techniques that are applied in finance By the end of this book you will be able to apply Python to different paradigms in the financial industry and perform efficient data analysis What you will learn Solve linear and nonlinear models representing various financial problems Perform principal component analysis on the DOW index and its components Analyze predict and forecast stationary and non stationary time series processes Create an event driven backtesting tool and measure your strategies Build a high frequency algorithmic trading platform with Python Replicate the CBOT VIX index with SPX options for studying VIX based strategies Perform regression based and classification based machine learning tasks for prediction Use TensorFlow and Keras in deep learning neural network architecture Who this book is for If you are a financial or data analyst or a software developer in the financial

Mastering pandas for Finance Michael Heydt,2015-05-25 If you are interested in quantitative finance financial modeling and trading or simply want to learn how Python and pandas can be applied to finance then this book is ideal for you Some knowledge of Python and pandas is assumed Interest in financial concepts is helpful but no prior knowledge is expected

Python for Finance Cookbook Eryk Lewinson,2020-01-31 Solve common and not so common financial problems using Python libraries such as NumPy SciPy and pandas Key FeaturesUse powerful Python libraries such as pandas NumPy and SciPy to analyze your financial dataExplore unique recipes for financial data analysis and processing with PythonEstimate popular financial models such as CAPM and GARCH using a problem solution approachBook Description Python is one of the most popular programming languages used in the financial industry with a huge set of accompanying libraries In this book you ll cover different ways of downloading financial data and preparing it for modeling You ll calculate popular indicators used in technical analysis such as Bollinger Bands MACD RSI and backtest automatic trading strategies Next you ll cover time series analysis and models such as exponential smoothing ARIMA and GARCH including multivariate specifications before exploring the popular CAPM and the Fama French three

factor model You ll then discover how to optimize asset allocation and use Monte Carlo simulations for tasks such as calculating the price of American options and estimating the Value at Risk VaR In later chapters you ll work through an entire data science project in the financial domain You ll also learn how to solve the credit card fraud and default problems using advanced classifiers such as random forest XGBoost LightGBM and stacked models You ll then be able to tune the hyperparameters of the models and handle class imbalance Finally you ll focus on learning how to use deep learning PyTorch for approaching financial tasks By the end of this book you ll have learned how to effectively analyze financial data using a recipe based approach What you will learnDownload and preprocess financial data from different sourcesBacktest the performance of automatic trading strategies in a real world settingEstimate financial econometrics models in Python and interpret their resultsUse Monte Carlo simulations for a variety of tasks such as derivatives valuation and risk assessmentImprove the performance of financial models with the latest Python librariesApply machine learning and deep learning techniques to solve different financial problemsUnderstand the different approaches used to model financial time series dataWho this book is for This book is for financial analysts data analysts and Python developers who want to learn how to implement a broad range of tasks in the finance domain Data scientists looking to devise intelligent financial strategies to perform efficient financial analysis will also find this book useful Working knowledge of the Python programming language is mandatory to grasp the concepts covered in the book effectively

Python for Finance Yves J. Hilpisch, 2018-12-05 The financial industry has recently adopted Python at a tremendous rate with some of the largest investment banks and hedge funds using it to build core trading and risk management systems Updated for Python 3 the second edition of this hands on book helps you get started with the language guiding developers and quantitative analysts through Python libraries and tools for building financial applications and interactive financial analytics Using practical examples throughout 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

Tidy Finance with Python Christoph Scheuch, Stefan Voigt, Patrick Weiss, Christoph Frey, 2024-07-12 This textbook shows how to bring theoretical concepts from finance and econometrics to the data Focusing on coding and data analysis with Python we show how to conduct research in empirical finance from scratch We start by introducing the concepts of tidy data and coding principles using pandas numpy and plotnine Code is provided to prepare common open source and proprietary financial data sources CRSP Compustat Mergent FISD TRACE and organize them in a database We reuse these data in all the subsequent chapters which we keep as self contained as possible The empirical applications range from key concepts of empirical asset pricing beta estimation portfolio sorts performance analysis Fama French factors to modeling and machine learning applications fixed effects estimation clustering standard errors difference in difference estimators ridge regression Lasso Elastic net random forests neural networks and portfolio optimization techniques Key Features Self contained chapters on

the most important applications and methodologies in finance which can easily be used for the reader's research or as a reference for courses on empirical finance. Each chapter is reproducible in the sense that the reader can replicate every single figure, table, or number by simply copying and pasting the code we provide. A full-fledged introduction to machine learning with scikit-learn based on tidy principles to show how factor selection and option pricing can benefit from Machine Learning methods. We show how to retrieve and prepare the most important datasets: financial economics CRSP and Compustat including detailed explanations of the most relevant data characteristics. Each chapter provides exercises based on established lectures and classes which are designed to help students to dig deeper. The exercises can be used for self-studying or as a source of inspiration for teaching exercises.

Fintech For Finance Professionals David Kuo Chuen Lee, Joseph Lim, Kok Fai Phoon, Yu Wang, 2021-11-29 As technologies such as artificial intelligence, big data, cloud computing, and blockchain have been applied to various areas in finance, there is an increasing demand for finance professionals with the skills and knowledge related to fintech. Knowledge of the technologies involved and finance concepts is crucial for the finance professional to understand the architecture of technologies as well as how they can be applied to solve various aspects of finance. This book covers the main concepts and theories of the technologies in fintech which consist of big data, data science, artificial intelligence, data structure, and algorithm, computer network, network security, and Python programming. *Fintech for Finance Professionals* is a companion volume to the book on finance that covers the fundamental concepts in the field. Together, these two books form the foundation for a good understanding of finance and fintech applications which will be covered in subsequent volumes.

Ultimate Python for Fintech Solutions Bhagvan Kommadi, 2024-07-12 TAGLINE: Creating Next Gen Apps in Finance KEY FEATURES: Master the Python libraries and packages essential for financial applications enabling robust development. Utilize Python for developing applications that process financial information, visualize data in diverse formats, and create insightful representations. Derive analytical insights from mathematical models integrated into Python applications for data-driven decision making in finance and fintech. DESCRIPTION: Dive into the dynamic world where finance meets fintech with Python's versatile capabilities in this *Ultimate Python for Fintech Solutions*. Whether you're aiming to build secure trading platforms, conduct deep statistical analysis, or pioneer next-generation financial technologies, this book equips you with the knowledge, tools, and practical insights to succeed. This book starts with Python's foundational programming techniques essential for understanding financial principles and laying the groundwork for robust applications. You will learn to build scalable solutions that handle complex financial data with ease by using Python for analysis, forecasting, and data visualization. Next, it moves to explore advanced topics like AI/ML applications tailored for finance, enabling you to unlock predictive insights and streamline decision-making processes. You will discover how Python integrates cutting-edge technologies such as Big Data and Blockchain to offer innovative solutions for modern fintech challenges. By the end of this expansive book, you will gain the expertise needed to develop sophisticated financial applications, visualize data,

effectively across desktop and web platforms and drive innovation in fintech

WHAT WILL YOU LEARN Learn to build robust applications tailored for financial analysis modeling and fintech solutions using Python Learn to analyze large volumes of financial data and visualize insights effectively Apply advanced AI ML techniques to predict trends optimize financial strategies and automate decision making processes Integrate Python with Big Data platforms and Blockchain technologies to work with massive datasets and decentralized financial systems Acquire the knowledge and skills to innovate in the fintech space to address modern financial challenges and opportunities

WHO IS THIS BOOK FOR This book is for working professionals students business managers consultants technical functional analysts anyone wishing to improve their skills in Fintech with Python This book will be a great start for a programmer who wants to start on the Python tech stack and make a career in Fintech space The prerequisites for the reader will be basic mathematics and advanced math topics such as time series derivatives and integrals The outcome for the reader will be to understand mathematical modeling and to have capability to develop next gen financial apps

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Quantitative Finance with Python Chris Kelliher, 2022-05-19 Quantitative Finance with Python A Practical Guide to 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

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

Intelligent Resource Management for Network Slicing in 5G and Beyond

Qiang Ye, Weihua Zhuang, 2022-01-01 This book provides a timely and comprehensive study of developing efficient network slicing frameworks in both 5G wireless and core networks It also presents protocol stack layer perspectives which includes virtual network topology design end to end delay modeling dynamic resource slicing and link layer and transport layer protocol customization This book provides basic principles concepts and technologies for communication computing and networking Optimization and queueing analysis techniques are applied to solving different problems for network slicing illustrated in this book as well Researchers working in the area of network slicing in 5G networks and beyond and advanced level students majoring in electrical engineering computer engineering and computer science will find this book useful as a reference or secondary textbook Professionals in industry seeking solutions to resource management for 5G networks and beyond will also want to purchase this book

Mastering R for Quantitative Finance

Edina Berlinger, Ferenc Illés, Milán Badics, Ádám Banai, Gergely Daróczi, Barbara Dömötör, Gergely Gabler, Dániel Havran, Péter Juhász, István Margitai, Balázs Márkus, Péter Medvegyev, Julia Molnár, Balázs Árpád Szűcs, Ágnes Tuza, Tamás Vadász, Kata Váradi, Ágnes

Vidovics-Dancs, 2015-03-10 This book is intended for those who want to learn how to use R s capabilities to build models in quantitative finance at a more advanced level If you wish to perfectly take up the rhythm of the chapters you need to be at an intermediate level in quantitative finance and you also need to have a reasonable knowledge of R

Machine Learning with R Cookbook

Ashish Singh Bhatia, Yu-Wei, Chiu (David Chiu), 2017-10-23 Explore over 110 recipes to analyze data and build predictive models with simple and easy to use R code About This Book Apply R to simplify predictive modeling with short and simple code Use machine learning to solve problems ranging from small to big data Build a training and testing dataset applying different classification methods Who This Book Is For This book is for data science professionals data analysts or people who have used R for data analysis and machine learning who now wish to become the go to person for machine learning with R Those who wish to improve the efficiency of their machine learning models and need to work with different kinds of data set will find this book very insightful What You Will Learn Create and inspect transaction datasets and

perform association analysis with the Apriori algorithm Visualize patterns and associations using a range of graphs and find frequent item sets using the Eclat algorithm Compare differences between each regression method to discover how they solve problems Detect and impute missing values in air quality data Predict possible churn users with the classification approach Plot the autocorrelation function with time series analysis Use the Cox proportional hazards model for survival analysis Implement the clustering method to segment customer data Compress images with the dimension reduction method Incorporate R and Hadoop to solve machine learning problems on big data In Detail Big data has become a popular buzzword across many industries An increasing number of people have been exposed to the term and are looking at how to leverage big data in their own businesses to improve sales and profitability However collecting aggregating and visualizing data is just one part of the equation Being able to extract useful information from data is another task and a much more challenging one Machine Learning with R Cookbook Second Edition uses a practical approach to teach you how to perform machine learning with R Each chapter is divided into several simple recipes Through the step by step instructions provided in each recipe you will be able to construct a predictive model by using a variety of machine learning packages In this book you will first learn to set up the R environment and use simple R commands to explore data The next topic covers how to perform statistical analysis with machine learning analysis and assess created models covered in detail later on in the book You ll also learn how to integrate R and Hadoop to create a big data analysis platform The detailed illustrations provide all the information required to start applying machine learning to individual projects With Machine Learning with R Cookbook machine learning has never been easier Style and approach This is an easy to follow guide packed with hands on examples of machine learning tasks Each topic includes step by step instructions on tackling difficulties faced when applying R to machine learning

Building a Recommendation System with R Suresh K. Gorakala,Michele Usuelli,2015-09-29 Learn the art of building robust and powerful recommendation engines using R About This Book Learn to exploit various data mining techniques Understand some of the most popular recommendation techniques This is a step by step guide full of real world examples to help you build and optimize recommendation engines Who This Book Is For If you are a competent developer with some knowledge of machine learning and R and want to further enhance your skills to build recommendation systems then this book is for you What You Will Learn Get to grips with the most important branches of recommendation Understand various data processing and data mining techniques Evaluate and optimize the recommendation algorithms Prepare and structure the data before building models Discover different recommender systems along with their implementation in R Explore various evaluation techniques used in recommender systems Get to know about recommenderlab an R package and understand how to optimize it to build efficient recommendation systems In Detail A recommendation system performs extensive data analysis in order to generate suggestions to its users about what might interest them R has recently become one of the most popular programming languages for the data analysis Its structure allows you to interactively explore the

data and its modules contain the most cutting edge techniques thanks to its wide international community This distinctive feature of the R language makes it a preferred choice for developers who are looking to build recommendation systems The book will help you understand how to build recommender systems using R It starts off by explaining the basics of data mining and machine learning Next you will be familiarized with how to build and optimize recommender models using R Following that you will be given an overview of the most popular recommendation techniques Finally you will learn to implement all the concepts you have learned throughout the book to build a recommender system Style and approach This is a step by step guide that will take you through a series of core tasks Every task is explained in detail with the help of practical examples

Statistics Every Programmer Needs Gary Sutton, 2025-08-26 Put statistics into practice with Python Data driven decisions rely on statistics Statistics Every Programmer Needs introduces the statistical and quantitative methods that will help you go beyond gut feeling for tasks like predicting stock prices or assessing quality control with examples using the rich tools of the Python ecosystem Statistics Every Programmer Needs will teach you how to Apply foundational and advanced statistical techniques Build predictive models and simulations Optimize decisions under constraints Interpret and validate results with statistical rigor Implement quantitative methods using Python In this hands on guide stats expert Gary Sutton blends the theory behind these statistical techniques with practical Python based applications offering structured reproducible and defensible methods for tackling complex decisions Well annotated and reusable Python code listings illustrate each method with examples you can follow to practice your new skills About the technology Whether you re analyzing application performance metrics creating relevant dashboards and reports or immersing yourself in a numbers heavy coding project every programmer needs to know how to turn raw data into actionable insight Statistics and quantitative analysis are the essential tools every programmer needs to clarify uncertainty optimize outcomes and make informed choices About the book Statistics Every Programmer Needs teaches you how to apply statistics to the everyday problems you ll face as a software developer Each chapter is a new tutorial You ll predict ultramarathon times using linear regression forecast stock prices with time series models analyze system reliability using Markov chains and much more The book emphasizes a balance between theory and hands on Python implementation with annotated code and real world examples to ensure practical understanding and adaptability across industries What s inside Probability basics and distributions Random variables Regression Decision trees and random forests Time series analysis Linear programming Monte Carlo and Markov methods and much more About the reader Examples are in Python About the author Gary Sutton is a business intelligence and analytics leader and the author of Statistics Slam Dunk Statistical analysis with R on real NBA data Table of Contents 1 Laying the groundwork 2 Exploring probability and counting 3 Exploring probability distributions and conditional probabilities 4 Fitting a linear regression 5 Fitting a logistic regression 6 Fitting a decision tree and a random forest 7 Fitting time series models 8 Transforming data into decisions with linear programming 9 Running Monte

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Machine Learning for Finance Vincent Bisette, Hayden Van Der Post, 2024-05-27 Reactive Publishing Unlock the full potential of your financial analysis with Machine Learning for Finance This comprehensive guide takes you from the basics of Python programming to advanced machine learning techniques tailored specifically for financial applications Perfect for finance professionals data scientists and anyone eager to harness the power of AI in finance this book provides Step by step tutorials on Python and key machine learning libraries Practical case studies demonstrating real world financial applications Techniques for predicting stock prices managing risk and optimizing portfolios Insights into the latest trends in financial technology Written by an industry expert Machine Learning for Finance bridges the gap between finance and technology equipping you with the tools to make data driven decisions and stay ahead in the competitive financial landscape Whether you re a seasoned professional or a curious beginner this book is your ultimate resource for mastering the intersection of finance and machine learning Transform your financial strategies with Python and join the future of finance today

Python for Finance Yuxing Yan, 2017-06-30 Learn and implement various Quantitative Finance concepts using the popular Python libraries About This Book Understand the fundamentals of Python data structures and work with time series data Implement key concepts in quantitative finance using popular Python libraries such as NumPy SciPy and matplotlib A step by step tutorial packed with many Python programs that will help you learn how to apply Python to finance Who This Book Is For This book assumes that the readers have some basic knowledge related to Python However he she has no knowledge of quantitative finance In addition he she has no knowledge about financial data What You Will Learn Become acquainted with Python in the first two chapters Run CAPM Fama French 3 factor and Fama French Carhart 4 factor models Learn how to price a call put and several exotic options Understand Monte Carlo simulation how to write a Python program to replicate the Black Scholes Merton options model and how to price a few exotic options Understand the concept of volatility and how to test the hypothesis that volatility changes over the years Understand the ARCH and GARCH processes and how to write related Python programs In Detail This book uses Python as its computational tool Since Python is free any school or organization can download and use it This book is organized according to various finance subjects In other words the first edition focuses more on Python while the second edition is truly trying to apply Python to finance The book starts by explaining topics exclusively related to Python Then we deal with critical parts of Python explaining concepts such as time value of money stock and bond evaluations capital asset pricing model multi factor models time series analysis portfolio theory options and futures This book will help us to learn or review the basics of quantitative finance and apply Python to solve various problems such as estimating IBM s market risk running a Fama French 3 factor 5 factor or Fama French Carhart 4 factor model estimating the VaR of a 5 stock portfolio estimating the optimal portfolio and constructing the efficient frontier for a 20 stock

portfolio with real world stock and with Monte Carlo Simulation Later we will also learn how to replicate the famous Black Scholes Merton option model and how to price exotic options such as the average price call option Style and approach This book takes a step by step approach in explaining the libraries and modules in Python and how they can be used to implement various aspects of quantitative finance Each concept is explained in depth and supplemented with code examples for better understanding

The Great Equalizer Mark D. Benigni, Barbara A. Haefner, Lois B. Lehman, 2022-04-11 The Great Equalizer Six Strategies to Make Public Education Work in America delves into the bleak reality of leading a district with a school poised for state takeover and a district with growing inequalities and increasing student needs Learn how collaboration allowed that same district to become a 1 1 school system when K 12 schools were still dealing with technology roadblocks Discover how public schools can garner philanthropy and foundation support to lead their districts down the road of excellence Chapter hooks key takeaways and guided discussion questions provide a glimpse into the realities of leading public education systems across our nation By implementing six strategies for success public education can be innovative and make a difference for all students Together we can ensure that America s public education system remains the great equalizer

FinTech Development for Financial Inclusiveness Anshari, Muhammad, Almunawar, Mohamad Nabil, Masri, Masairol, 2021-11-26 Financial technology FinTech and its related products are considered a major disruptive innovation in financial services substantially elevating financial solutions and new business models Resulting from the fusion of finance and smart mobile technology this innovative technology requires additional investigation into its adoption challenges opportunities and future directions so that we may understand and develop the technology to its full potential FinTech Development for Financial Inclusiveness moves beyond the theoretical areas of FinTech to comprehensively explore the recent FinTech initiative scenarios with respect to processes strategies challenges lessons learned and outcomes within economic development as well as trade and investment Covering a range of topics such as decentralized finance and global electronic commerce it is ideal for industry professionals business owners consultants practitioners instructors researchers academicians and students

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Mastering Python For Finance Introduction

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