Areej A. Baasher

Forex Trend Classification by Machine Learning

Foreign Currency Exchange market (Forex) is a highly volatile complex time series for which predicting the daily trend is a challenging problem. In this book, we investigate the prediction of the " high " exchange rate daily trend as classification problem (two classes), with uptrend and downtrend outcomes. Foreign Exchange (Forex) market trend was predicted using classification and machine learning techniques for the sake of gaining long-term profits. The trading strategy here is to take one action per day, where this action is either buy or sell based on the prediction we have. We view the prediction problem as a classification task, thus this work is not trying to predict the actual exchange rate value between two currencies, but rather, if that exchange rate is going to rise or fall. Forex daily exchange rate values can be seen as a time series data and all time series data forecasting and data mining techniques can be used to do the required classification task.

Areej A. Baasher
Mohamed W. Fakhr

Forex Trend Classification by Machine Learning

Exchange Rates

Forex Trend Classification Using Machine Learning Techniques

Vijay Singh Rathore,Marcel Worring,Durgesh Kumar Mishra,Amit Joshi,Shikha Maheshwari

Forex Trend Classification Using Machine Learning Techniques:

Second International Conference on Sustainable Technologies for Computational Intelligence Ashish Kumar Luhach,Ramesh Chandra Poonia,Xiao-Zhi Gao,Dharm Singh Jat,2021-10-18 This book gathers high quality papers presented at the Second International Conference on Sustainable Technologies for Computational Intelligence ICTSCI 2021 held at Graphic Era University Dehradun India during May 22 23 2021 It covers emerging topics in computational intelligence and effective strategies for its implementation in engineering applications **Proceedings of International Conference on Recent Innovations in Computing** Yashwant Singh,Paulo J. Sequeira Gonçalves,Pradeep Kumar Singh,Maheshkumar H. Kolekar,2024-11-28 This book features selected papers presented at the 6th International Conference on Recent Innovations in Computing ICRIC 2023 held on 26 27 October 2023 at the Central University of Jammu India and organized by the university s Department of Computer Science and Information Technology The book is divided into two volumes and it includes the latest research in the areas of software engineering cloud computing computer networks and Internet technologies artificial intelligence information security database and distributed computing and digital India **AI Innovations in Service and Tourism Marketing** Nadda, Vipin,Tyagi, Pankaj Kumar,Singh, Amrik,Singh, Vipin,2024-08-01 The use of artificial intelligence AI in service and tourism marketing has revolutionized the industry by personalizing customer experiences and optimizing operational efficiency AI driven tools analyze vast amounts of data to understand customer preferences enabling businesses to offer tailored recommendations and promotions AI powered marketing campaigns can adapt in real time ensuring messages resonate with the right audience AI Innovations in Service and Tourism Marketing discusses cutting edge innovations in the use of AI technologies in service and tourism marketing It explains how to harness these technologies to enhance customer experience and drive engagement Covering topics such as automation chatbots and operational efficiency this book is an excellent resource for managers marketing professionals business leaders researchers academicians educators and postgraduate students Artificial Intelligence Based Smart and Secured Applications Sridaran Rajagopal,Kalpesh Popat,Divyakant Meva,Sunil Bajeja,Pankaj Mudholkar,2025-04-22 The six volume set CCIS 2424 2429 constitutes the refereed proceedings of the Third International Conference on Advances in Smart Computing and Information Security ASCIS 2024 held in Rajkot Gujarat India in October 16 18 2024 The 138 full papers and 43 short papers presented in these six volumes were carefully reviewed and selected from 667 submissions The papers presented in these six volumes are organized in the following topical sections Part I II III IV Artificial Intelligence Network and Cloud Computing Part VI Cyber Security Computer Application for Sustainability High-performance Algorithmic Trading using Machine Learning Franck Bardol,2025-06-30 DESCRIPTION Machine learning is not just an advantage it is becoming standard practice among top performing trading firms As traditional strategies struggle to navigate noise complexity and speed ML powered systems extract alpha by identifying transient patterns beyond human reach This shift is

transforming how hedge funds quant teams and algorithmic platforms operate and now these same capabilities are available to advanced practitioners This book is a practitioner s blueprint for building production grade ML trading systems from scratch It goes far beyond basic return sign classification tasks which often fail in live markets and delivers field tested techniques used inside elite quant desks It covers everything from the fundamentals of systematic trading and ML s role in detecting patterns to data preparation backtesting and model lifecycle management using Python libraries You will learn to implement supervised learning for advanced feature engineering and sophisticated ML models You will also learn to use unsupervised learning for pattern detection apply ultra fast pattern matching to chartist strategies and extract crucial trading signals from unstructured news and financial reports Finally you will be able to implement anomaly detection and association rules for comprehensive insights By the end of this book you will be ready to design test and deploy intelligent trading strategies to institutional standards WHAT YOU WILL LEARN Build end to end machine learning pipelines for trading systems Apply unsupervised learning to detect anomalies and regime shifts Extract alpha signals from financial text using modern NLP Use AutoML to optimize features models and parameters Design fast pattern detectors from signal processing techniques Backtest event driven strategies using professional grade tools Interpret ML results with clear visualizations and plots WHO THIS BOOK IS FOR This book is for robo traders algorithmic traders hedge fund managers portfolio managers Python developers engineers and analysts who want to understand master and integrate machine learning into trading strategies Readers should understand basic automated trading concepts and have some beginner experience writing Python code TABLE OF CONTENTS 1 Algorithmic Trading and Machine Learning in a Nutshell 2 Data Feed Backtests and Forward Testing 3 Optimizing Trading Systems Metrics and Automated Reporting 4 Implement Trading Strategies 5 Supervised Learning for Trading Systems 6 Improving Model Capability with Features 7 Advanced Machine Learning Models for Trading 8 AutoML and Low Code for Trading Strategies 9 Unsupervised Learning Methods for Trading 10 Unsupervised Learning with Pattern Matching 11 Trading Signals from Reports and News 12 Advanced Unsupervised Learning Anomaly Detection and Association Rules Appendix APIs and Libraries for each chapter **Machine Learning Algorithms** Meenu Khurana,Abhishek Thakur,Praveen Kantha,Chin-Shiuh Shieh,Rajesh K. Shukla,2024-11-11 This book constitutes the refereed proceedings of the First International Conference on Machine Learning Algorithms ICMLA 2024 held in Himachal Pradesh India during February 23 24 2024 The 23 full papers and 17 short papers included in this book were carefully reviewed and selected from 400 submissions They were organized in the following topical sections machine learning image processing deep learning <u>Hybrid Artificial Intelligent Systems</u> Francisco Javier Martínez de Pisón,Rubén Urraca,Héctor Quintián,Emilio Corchado,2017-06-12 This volume constitutes the refereed proceedings of the 12th International Conference on Hybrid Artificial Intelligent Systems HAIS 2017 held in La Rioja Spain in June 2017 The 60 full papers published in this volume were carefully reviewed and selected from 130 submissions They are organized in the following topical sections data

mining knowledge discovery and big data bioinspired models and evolutionary computing learning algorithms visual analysis and advanced data processing techniques data mining applications and hybrid intelligent applications *Computational Intelligence Techniques for Trading and Investment* Christian Dunis,Spiros Likothanassis,Andreas Karathanasopoulos,Georgios Sermpinis,Konstantinos Theofilatos,2014-03-26 Computational intelligence a sub branch of artificial intelligence is a field which draws on the natural world and adaptive mechanisms in order to study behaviour in changing complex environments This book provides an interdisciplinary view of current technological advances and challenges concerning the application of computational intelligence techniques to financial time series forecasting trading and investment The book is divided into five parts The first part introduces the most important computational intelligence and financial trading concepts while also presenting the most important methodologies from these different domains The second part is devoted to the application of traditional computational intelligence techniques to the fields of financial forecasting and trading and the third part explores the applications of artificial neural networks in these domains The fourth part delves into novel evolutionary based hybrid methodologies for trading and portfolio management while the fifth part presents the applications of advanced computational intelligence modelling techniques in financial forecasting and trading This volume will be useful for graduate and postgraduate students of finance computational finance financial engineering and computer science Practitioners traders and financial analysts will also benefit from this book **Alternative Assets and Cryptocurrencies** Christian Hafner,2019-07-26 Alternative assets such as fine art wine or diamonds have become popular investment vehicles in the aftermath of the global financial crisis Correlation with classical financial markets is typically low such that diversification benefits arise for portfolio allocation and risk management Cryptocurrencies share many alternative asset features but are hampered by high volatility sluggish commercial acceptance and regulatory uncertainties This collection of papers addresses alternative assets and cryptocurrencies from economic financial statistical and technical points of view It gives an overview of their current state and explores their properties and prospects using innovative approaches and methodologies **Utilizing AI and Machine Learning in Financial Analysis** Darwish, Dina,Kumar, Sanjeev,2025-01-21 Machine learning models can imitate the cognitive process by assimilating knowledge from data and employing it to interpret and analyze information Machine learning methods facilitate the comprehension of vast amounts of data and reveal significant patterns incorporated within it This data is utilized to optimize financial business operations facilitate well informed judgements and aid in predictive endeavors Financial institutions utilize it to enhance pricing minimize risks stemming from human error mechanize repetitive duties and comprehend client behavior Utilizing AI and Machine Learning in Financial Analysis explores new trends in machine learning and artificial intelligence implementations in the financial sector It examines techniques in financial analysis using intelligent technologies for improved business services This book covers topics such as customer relations predictive analytics and fraud detection and is a useful resource

for computer engineers security professionals business owners accountants academicians data scientists and researchers

Trends in Data Engineering Methods for Intelligent Systems Jude Hemanth,Tuncay Yigit,Bogdan Patrut,Anastassia Angelopoulou,2021-07-05 This book briefly covers internationally contributed chapters with artificial intelligence and applied mathematics oriented background details Nowadays the world is under attack of intelligent systems covering all fields to make them practical and meaningful for humans In this sense this edited book provides the most recent research on use of engineering capabilities for developing intelligent systems The chapters are a collection from the works presented at the 2nd International Conference on Artificial Intelligence and Applied Mathematics in Engineering held within 09 10 11 October 2020 at the Antalya Manavgat Turkey The target audience of the book covers scientists experts M Sc and Ph D students post docs and anyone interested in intelligent systems and their usage in different problem domains The book is suitable to be used as a reference work in the courses associated with artificial intelligence and applied mathematics **Algorithmic Trading Methods** Robert Kissell,2020-09-08 Algorithmic Trading Methods Applications using Advanced Statistics Optimization and Machine Learning Techniques Second Edition is a sequel to The Science of Algorithmic Trading and Portfolio Management This edition includes new chapters on algorithmic trading advanced trading analytics regression analysis optimization and advanced statistical methods Increasing its focus on trading strategies and models this edition includes new insights into the ever changing financial environment pre trade and post trade analysis liquidation cost risk analysis and compliance and regulatory reporting requirements Highlighting new investment techniques this book includes material to assist in the best execution process model validation quality and assurance testing limit order modeling and smart order routing analysis Includes advanced modeling techniques using machine learning predictive analytics and neural networks The text provides readers with a suite of transaction cost analysis functions packaged as a TCA library These programming tools are accessible via numerous software applications and programming languages Provides insight into all necessary components of algorithmic trading including transaction cost analysis market impact estimation risk modeling and optimization and advanced examination of trading algorithms and corresponding data requirements Increased coverage of essential mathematics probability and statistics machine learning predictive analytics and neural networks and applications to trading and finance Advanced multiperiod trade schedule optimization and portfolio construction techniques Techniques to decode broker dealer and third party vendor models Methods to incorporate TCA into proprietary alpha models and portfolio optimizers TCA library for numerous software applications and programming languages including MATLAB Excel Add In Python Java C C Net Hadoop and as standalone EXE and COM applications **Python for Algorithmic Trading** Yves Hilpisch,2020-11-12 Algorithmic trading once the exclusive domain of institutional players is now open to small organizations and individual traders using online platforms The tool of choice for many traders today is Python and its ecosystem of powerful packages In this practical book author Yves Hilpisch shows students academics and practitioners how to use Python

in the fascinating field of algorithmic trading You ll learn several ways to apply Python to different aspects of algorithmic trading such as backtesting trading strategies and interacting with online trading platforms Some of the biggest buy and sell side institutions make heavy use of Python By exploring options for systematically building and deploying automated algorithmic trading strategies this book will help you level the playing field Set up a proper Python environment for algorithmic trading Learn how to retrieve financial data from public and proprietary data sources Explore vectorization for financial analytics with NumPy and pandas Master vectorized backtesting of different algorithmic trading strategies Generate market predictions by using machine learning and deep learning Tackle real time processing of streaming data with socket programming tools Implement automated algorithmic trading strategies with the OANDA and FXCM trading platforms __Advanced Technologies, Systems, and Applications IX__ Naida Ademović,Zlatan Akšamija,Almir Karabegović,2024-09-30 This book is a comprehensive compilation of articles that delve into the forefront of interdisciplinary applications of innovative technologies It presents the scientific inquiries and outcomes showcased at the 15th Days of the Bosnian Herzegovinian American Academy of Arts and Sciences conference held in Sarajevo Bosnia and Herzegovina from June 20 to 23 2024 The collection highlights the latest advancements and will draw the interest of researchers in diverse domains of engineering including civil engineering data science and geographic information systems computer science and artificial intelligence advanced environmental engineering and project management information and communication technologies and advanced electrical power systems This book serves as a testament to the ongoing pursuit of knowledge and innovation in these fields offering insights into the current research landscape and future directions The contributions not only expand the theoretical foundations but also explore practical applications that address contemporary challenges in technology and engineering The editors gratefully acknowledge the dedicated efforts of all the symposia chairs of the 15th Days of BHAAAS whose meticulous planning and scholarly oversight have enriched this book and contributed to its scholarly significance *High-Performance Algorithmic Trading Using AI* Melick R. Baranasooriya,2024-08-08 DESCRIPTION High Performance Algorithmic Trading using AI is a comprehensive guide designed to empower both beginners and experienced professionals in the finance industry This book equips you with the knowledge and tools to build sophisticated high performance trading systems It starts with basics like data preprocessing feature engineering and ML Then it moves to advanced topics such as strategy development backtesting platform integration using Python for financial modeling and the implementation of AI models on trading platforms Each chapter is crafted to equip readers with actionable skills ranging from extracting insights from vast datasets to developing and optimizing trading algorithms using Python s extensive libraries It includes real world case studies and advanced techniques like deep learning and reinforcement learning The book wraps up with future trends challenges and opportunities in algorithmic trading Become a proficient algorithmic trader capable of designing developing and deploying profitable trading systems It not only provides theoretical knowledge but also

emphasizes hands on practice and real world applications ensuring you can confidently navigate and leverage AI in your trading strategies KEY FEATURES Master AI and ML techniques to enhance algorithmic trading strategies Hands on Python tutorials for developing and optimizing trading algorithms Real world case studies showcasing AI applications in diverse trading scenarios WHAT YOU WILL LEARN Develop AI powered trading algorithms for enhanced decision making and profitability Utilize Python tools and libraries for financial modeling and analysis Extract actionable insights from large datasets for informed trading decisions Implement and optimize AI models within popular trading platforms Apply risk management strategies to safeguard and optimize investments Understand emerging technologies like quantum computing and blockchain in finance WHO THIS BOOK IS FOR This book is for financial professionals analysts traders and tech enthusiasts with a basic understanding of finance and programming TABLE OF CONTENTS 1 Introduction to Algorithmic Trading and AI 2 AI and Machine Learning Basics for Trading 3 Essential Elements in AI Trading Algorithms 4 Data Processing and Analysis 5 Simulating and Testing Trading Strategies 6 Implementing AI Models with Trading Platforms 7 Getting Prepared for Python Development 8 Leveraging Python for Trading Algorithm Development 9 Real world Examples and Case Studies 10 Using LLMs for Algorithmic Trading 11 Future Trends Challenges and Opportunities **Proceedings of the International Conference on Artificial Intelligence and Cloud (ICAIC'25)** ,2025-05-17 Dr A Bamini Assistant Professor and Head Department of Computer Applications The Standard Fireworks Rajaratnam College for Women Autonomous Sivakasi Tamil Nadu India Mrs P Muthulakshmi Assistant Professor Department of Computer Applications The Standard Fireworks Rajaratnam College for Women Autonomous Sivakasi Tamil Nadu India Mrs V Vanthana Assistant Professor Department of Computer Applications The Standard Fireworks Rajaratnam College for Women Autonomous Sivakasi Tamil Nadu India **Emerging Trends in Expert Applications and Security** Vijay Singh Rathore,Marcel Worring,Durgesh Kumar Mishra,Amit Joshi,Shikha Maheshwari,2018-11-19 The book covers current developments in the field of expert applications and security which employ advances of next generation communication and computational technology to shape real world applications It gathers selected research papers presented at the ICETEAS 2018 conference which was held at Jaipur Engineering College and Research Centre Jaipur India on February 17 18 2018 Key topics covered include expert applications and artificial intelligence information and application security advanced computing multimedia applications in forensics security and intelligence and advances in web technologies implementation and security issues

Machine Learning for Predictive Analysis Amit Joshi,Mahdi Khosravy,Neeraj Gupta,2020-10-22 This book gathers papers addressing state of the art research in the areas of machine learning and predictive analysis presented virtually at the Fourth International Conference on Information and Communication Technology for Intelligent Systems ICTIS 2020 India It covers topics such as intelligent agent and multi agent systems in various domains machine learning intelligent information retrieval and business intelligence intelligent information system development using design science principles intelligent web

mining and knowledge discovery systems **Advanced Information Networking and Applications** Leonard Barolli,2024-04-09 Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations are emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several of such applications have been difficult to realize because of many interconnection problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks This book covers the theory design and applications of computer networks distributed computing and information systems The aim of the book Advanced Information Networking and Applications is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications **Big Data Analytics for Smart Urban Systems** Saeid Pourroostaei Ardakani,Ali Cheshmehzangi,2023-09-27 Big Data Analytics for Smart Urban Systems aims to introduce Big data solutions for urban sustainability smart applications particularly for smart urban systems It focuses on intelligent big data which takes the benefits of machine learning to analyse large and rapidly changing datasets in smart urban systems The state of the art Big data analytics applications are presented and discussed to highlight the feasibility of big data and machine learning solutions to enhance smart urban systems smart operations urban management and urban governance The key benefits of this book are 1 to introduce the principles of machine learning enabled big data analysis in smart urban systems 2 to present the state of the art data analysis solutions in smart management and operations and 3 to understand the principles of big data analytics for smart cities and communities Endorsements Over the many years of collaboration between academia and industry we noticed the common language is big data with that we have developed novel ideas to bridge the gaps and help promote innovation technologies and science Tian Tang Independent Researcher China Big Data Analytics is a fascinating research area particularly for cities and city transformations This book is valuable to those who think vigorously and aim to act ahead Li Xie Independent Researcher China For urban critiques knowledge trains aspiring opportunities toward outstanding manifestations Smartness has evolved or advanced rambunctious embracing realities along with novel directions and nurturing integrated city knowledge Aaron Golden SELECT Consultants UK

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