

FOREX Trend Classification using Machine Learning Techniques

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Abstract :- Foreign Currency Exchange market (Forex) is a highly volatile complex time series for which predicting the daily trend is a challenging problem. In this paper, we investigate the prediction of the High exchange rate daily trend as a binary classification problem, with uptrend and downtrend outcomes. A large number of basic features driven from the time series data, including technical analysis features are generated using multiple history time windows. Various feature selection and feature extraction techniques are used to find best subsets for the classification problem. Machine learning systems are tested for each feature subset and results are analyzed. Four important Forex currency pairs are investigated and the results show consistent success in the daily prediction and in the expected profit.

Keywords: - Technical analysis, Feature selection, Feature extraction, Machine-learning techniques, Bagging Trees, SVM, Forex prediction.

1 Introduction

This paper is about predicting the Foreign Exchange (Forex) market trend using classification and machine learning techniques for the sake of gaining long-term profits. Our trading strategy 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 binary classification task, thus we are not trying to predict the actual exchange rate value between two currencies, but rather, if that exchange rate is going to rise or fall. Each day there are four observed rates, namely, the "Open", "Close", "Low" and "High". In this work, we focus on predicting the direction of the "High".

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.

In time series analysis, it is always a challenge to determine the required history window used by the classification or forecasting system to do its prediction. In this paper, we have taken an approach of providing features from multiple time windows ranging from one day up to 30 days. This of course results in a number of features larger than using a single time window. Processing of the raw time domain daily values is done to produce the basic features used in the feature selection and extraction steps. This processing involves calculation of technical analysis and other time and frequency domain features over multiple time windows with a total of 81 basic features. Our approach is to let feature selection and feature extraction techniques find the best set of features for the classification task. Feature selection techniques choose a subset of the basic features while feature extraction techniques find features in new projected spaces. In this paper, two feature selection and six feature extraction techniques are used which all aim at finding feature subsets to enhance the classification performance.

For each feature subset, three supervised machine learning classifiers are used, namely, radial basis function neural network (RBF), multilayer perceptron neural network (MLP) and support vector machine (SVM). This gives a large array of different feature subsets and different classifiers. Comparison between these different systems is done based on two factors. The first is the percentage classification performance on the test data. The second is a novel function we call the percentage normalized profit (PNP), which represents the ratio between the accumulated profits using the predicted trends versus the accumulated profit using perfect predictions along the duration of the test period. We have selected four Forex pairs which are namely the USD/YEN, USD/EGP, EURO/EGP and EURO/SAR (where EGP is the Egyptian pound and SAR is the Saudi Riyal). The remaining of this paper is organized as follows. Section 2 discusses the nature of the Forex data, and the most prominent approaches used in the literature

Forex Trend Classification Using Machine Learning Techniques

Christopher Clanlys



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 Bajaja, 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.

Forex Trend Classification by Machine Learning Areej A. Baasher, Mohamed W. Fakhr, 2016-11-17 **Digital Transformation and Sustainability of Business** Sai Kiran Oruganti, Dimitrios Karras, Srinesh Thakur, Janapati Krishna Chaithanya, Sukanya Metta, Amit Lathigara, 2025-05-20 It explores the integration of digital technologies into business models, offering innovative approaches for sustainable growth.

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Forex Trading With AI Christopher Clanlys, What if your trading system could think, adapt, and evolve just like you? *Forex Trading With AI* reveals how artificial intelligence is reshaping the forex market, enabling traders to forecast, automate, and execute trades with machine precision. Inside this powerful guide, you'll learn how to combine AI automation, algorithmic forecasting, and predictive indicators to build profitable forex strategies that truly work. Discover how to create AI trading bots, manage risk with intelligent sizing systems, and backtest thousands of strategies instantly using advanced AI tools. Whether you're a beginner exploring AI forex trading for the first time or a seasoned trader ready to master AI-powered forex trading systems, this book will show you how to trade smarter, not harder. Join the new era of trading where AI-driven analysis, automated execution, and data-informed decision-making replace guesswork. Yes, you mustn't rely on your human skills alone; otherwise, you would become one of those human dinosaurs of today who don't want to leverage their trading with the power of AI.

Forex Trend Trading Abraham Robert C, 2023-11-09. *Forex Trend Trading: A Practical Guide to Master the Art of Trend Trading for Long-Term Consistent Profit*. Renowned trader and expert strategist Abraham Robert C shares invaluable insights and proven techniques to help you navigate the ever-changing world of forex trading. Whether you're a novice trader seeking to enhance your skills or an experienced investor looking for a reliable method to generate consistent profit, this comprehensive guide is your ultimate resource. Packed with real-life examples, step-by-step

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Emerging Trends in Forex Trading Professional Level CPA John Kimani ,Dr. James Scott ,2023-06-26 Algorithmic Trading Social Trading Machine Learning in Forex Trading Cryptocurrency Trading High Frequency Trading Artificial Intelligence in Forex Tradi Trading Psychology Risk Management in Forex Trading

Trend Following Strategies in Forex - Maximizing Profit Potential Robert Carey,2023-11-21 In the dynamic world of Forex trading where market conditions are ever changing and opportunities arise amidst volatility adopting effective strategies becomes paramount for traders seeking to maximize profit potential One such approach that has gained prominence for its adaptability and potential for substantial gains is trend following In this comprehensive guide we will delve into the principles techniques and nuances of Trend Following Strategies in Forex with a singular focus on unlocking and maximizing profit potential Overview of Trend Following in Forex Trend following is not merely a trading strategy it is a mindset a systematic approach that seeks to capitalize on sustained market trends Rather than attempting to predict market directions trend followers aim to identify existing trends and align their positions accordingly By riding the momentum of trends traders employing this strategy seek to extract the maximum profit potential offered by extended market movements Importance of Maximizing Profit Potential In the vast and liquid Forex market the ability to maximize profit potential is a key factor that separates successful traders from the rest Trend following strategies when executed with precision provide traders with the tools to not only identify profitable trends but also to stay invested in those trends as they develop over time This guide will explore the fundamental principles technical tools and strategic considerations that empower traders to not only follow trends but to extract the full profit potential from these trends As we embark on this exploration of Trend Following Strategies in Forex we will delve into the intricacies of technical analysis the art of building a robust trend following plan and the tactical use of advanced tools and technology Real life case studies will illuminate successful trades providing tangible examples of how trend following can be a lucrative endeavor Additionally we will scrutinize mistakes and pitfalls to fortify traders against potential setbacks By the end of this guide traders will gain a comprehensive understanding of trend following as a dynamic and profitable strategy in Forex The insights shared herein will equip traders with the

knowledge and tools needed to navigate the markets identify trends and most importantly maximize profit potential in their pursuit of success in the ever evolving Forex landscape

Forex Trend Following Strategies: How to Make Big Gains with Low Risk Currency Trading Thomas Carter, 2014-11-26

Forex trend following offers you the opportunity to lock into the trends that can make triple digit profits but while it looks easy it is not and you wouldn't expect it to be with the rewards on offer but if you can master it then you can enjoy spectacular success

Trend following is an investment strategy that tries to take advantage of long term moves that seem to play out in various markets

The strategy aims to work on the market trend mechanism and take benefit from both sides of the market enjoying the profits from the ups and downs of the financial markets

Traders who use this approach can use current market price calculation moving averages and channel breakouts to determine the general direction of the market and to generate trade signals

Traders who employ a trend following strategy do not aim to forecast or predict specific price levels they simply jump on the trend and ride it

This book will show you 20 Forex Trend Following Strategies that will help you in catching small and big trend in the market

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