

Model Calibration and Automated Trading Agent for Euro Futures

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ABSTRACT

We explored the application of a machine learning method, Logitboost, to automatically calibrate a trading model using different versions of the same technical analysis indicators. This approach takes advantage of boosting's feature selection capability to select an optimal combination of technical indicators and design a new set of trading rules. We tested this approach with high frequency data of the Dow Jones EURO STOXX 50 Index Futures (FESX) and the DAX Futures (FDAX) for March 2009. Our method was implemented with different learning algorithms and outperformed a combination of the same group of technical analysis indicators using the parameters typically recommended by practitioners.

We incorporated this method of model calibration in a trading agent that relies on a layered structure consisting of the machine learning algorithm described above, an online learning utility, a trading strategy, and a risk management overlay. The online learning layer combines the output of several experts and suggests a short or long position. If the expected position is positive (negative), the trading agent sends a buy (sell) limit order at prices slightly lower (higher) than the bid price at the top of the buy (sell) order book less (plus) transaction costs. If the order is not 100% filled within a fixed period (i.e. 1 minute) of being issued, the existent limit orders are cancelled, and limit orders are reissued according to the new experts' forecast. As part of its risk management capability, the trading agent eliminates any weak trading signal.

The trading agent algorithm generated positive returns for the two major European index futures (FESX and FDAX) and outperformed a buy and hold strategy.

KEY WORDS

Automated trading, machine learning, algorithmic trading, agent based economics, trading agents, boosting.

1. Introduction

Most of the research applying agent based modeling and machine learning methods to finance have been in the equity [1, 46, 47, 57] and foreign exchange markets [21,

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Automated Trading with Boosting and Expert Weighting Germán G. Creamer, 2013 We propose a multi stock automated trading system that relies on a layered structure consisting of a machine learning algorithm an online learning utility and a risk management overlay Alternating decision tree ADT which is implemented with Logitboost was chosen as the underlying algorithm One of the strengths of our approach is that the algorithm is able to select the best combination of rules derived from well known technical analysis indicators and is also able to select the best parameters of the technical indicators Additionally the online learning layer combines the output of several ADTs and suggests a short or long position Finally the risk management layer can validate the trading signal when it exceeds a specified non zero threshold and limit the application of our trading strategy when it is not profitable We test the expert weighting algorithm with data of 100 randomly selected companies of the Samp P 500 index during the period 2003ndash 2005 We find that this algorithm generates abnormal returns during the test period Our experiments show that the boosting approach is able to improve the predictive capacity when indicators are combined and aggregated as a single predictor Even more the combination of indicators of different stocks demonstrated to be adequate in order to reduce the use of computational resources and still maintain an adequate predictive capacity

Computational Intelligence in Recent Communication Networks Mariya Ouaisa, Zakaria Boulouard, Mariyam Ouaisa, Bassma Guermah, 2022-02-21 This book focuses on the use of Artificial Intelligence and Machine Learning AI ML based techniques to solve issues related to communication networks their layers as well as their applications The book first offers an introduction to recent trends regarding communication networks The authors then provide an overview of theoretical concepts of AI ML techniques and protocols used in different layers of communication Furthermore this book presents solutions that help analyze complex patterns in user data and ultimately improve productivity Throughout AI ML based solutions are provided for topics such as signal detection channel modeling resource optimization routing protocol design transport layer optimization user

application behavior prediction software defined networking congestion control communication network optimization security and anomaly detection The book features chapters from a large spectrum of authors including researchers students as well as industrials involved in research and development

Machine Learning for Asset Managers Marcos M. López de Prado, 2020-04-22 Successful investment strategies are specific implementations of general theories An investment strategy that lacks a theoretical justification is likely to be false Hence an asset manager should concentrate her efforts on developing a theory rather than on backtesting potential trading rules The purpose of this Element is to introduce machine learning ML tools that can help asset managers discover economic and financial theories ML is not a black box and it does not necessarily overfit ML tools complement rather than replace the classical statistical methods Some of ML's strengths include 1 a focus on out of sample predictability over variance adjudication 2 the use of computational methods to avoid relying on potentially unrealistic assumptions 3 the ability to learn complex specifications including nonlinear hierarchical and noncontinuous interaction effects in a high dimensional space and 4 the ability to disentangle the variable search from the specification search robust to multicollinearity and other substitution effects

A Boosting Approach for Automated Trading Germán G. Creamer, 2013 This paper describes an algorithm for short term technical trading The algorithm was tested in the context of the Penn Lehman Automated Trading PLAT competition The algorithm is based on three main ideas The first idea is to use a combination of technical indicators to predict the daily trend of the stock the combination is optimized using a boosting algorithm The second idea is to use the constant rebalanced portfolios within the day in order to take advantage of market volatility without increasing risk The third idea is to use limit orders rather than market orders in order to minimize transaction costs

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