Stock Market Prediction using Machine Learning Techniques

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Abstract—The main objective of this research is to predict the market performance of Karachi Stock Exchange (KSE) on day closing using different machine learning techniques. The prediction model uses different attributes as an input and predicts market as Positive & Negative. The attributes used in the model includes Oil rates, Gold & Silver rates, Interest rate, Foreign Exchange (FEX) rate, NEWS and social media feed. The old statistical techniques including Simple Moving Average (SMA) and Autoregressive Integrated Moving Average (ARIMA) are also used as input. The machine learning techniques including Single Layer Perceptron (SLP), Multi-Layer Perceptron (MLP), Radial Basis Function (RBF) and Support Vector Machine (SVM) are compared. All these attributes are studied separately also. The algorithm MLP performed best as compared to other techniques. The oil rate attribute was found to be most relevant to market performance. The results suggest that performance of KSE-100 index can be predicted with machine learning techniques.

Keywords—*Stock Prediction; KSE-100 Index; Neural Networks; Support Vector Machine.*

I. INTRODUCTION

Predicting the future has always been an adventurous and attractive task for the probing individuals. This kind of prediction becomes more fascinating when it involves money and risk like predicting the Stock Market. Research has been done on Stock market prediction by researchers of different fields including the business and computer science [1,2]. Researchers have tried different approaches for market prediction including different techniques & algorithm and different combination of attributes. The attribute that makes a prediction model depends upon the factors on which market performance can depend.

On the basis of the literature review, different attributes are selected for the prediction model. Most of the research work done in stock market is by the people related to business field. Although some research has also been made by computer science researchers but it still shows a vast area to be explored.

In Computer Science the prediction may often relates to data mining or machine learning. Talking specifically about the Karachi Stock Exchange, there are very few researchers who have used the machine learning techniques for KSE market prediction. The main objective of this research is to find out whether the combination of different techniques that includes statistical, analytical and data mining techniques can predict stock market or not and up to what accuracy level.

As the main focus in this study is to predict the market, there exist few theories that are valid as well as oppose each other. The theory of random walk says price of a security can't be predicted using the historical data. It supports the argument that the difference between old price and current price of a security is completely independent. On the contrary, the chartist theories say there is some hidden information in the historical prices of a security that gives a clue to future price of that security. In [4], the researchers have used historical data to predict the position of stock market. The results of [4] proved that historical data has strong predictive ability. In [5], the research was performed on Asian markets to find out the factors that have concrete impact on market performance. In [6], the researchers have used Artificial Neural Networks (ANN) and statistical technique ARIMA on almost 3 year's data to predict KSE-100 index. The study presented in [7] has done a comprehensive analysis of the underlying relationship between macro-economic factors and KSE market. Similarly, few researches like [8] showed that person's mood plays the critical role in decision making. If the collective mood of the public is found using social media, then this can also help in predicting the decision they will make about investing the money in the market and thus market performance. In [9], the researchers proposed the use of data collected from different global financial markets with machine learning algorithms to predict the stock index movements. The study [10] made the use of financial NEWS in order to predict market prices. Current and historical NEWS about companies, economic and

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Machine Learning Applications Using Python Puneet Mathur,2018-12-12 Gain practical skills in machine learning for finance healthcare and retail This book uses a hands on approach by providing case studies from each of these domains you ll see examples that demonstrate how to use machine learning as a tool for business enhancement As a domain expert you will not only discover how machine learning is used in finance healthcare and retail but also work through practical case studies where machine learning has been implemented Machine Learning Applications Using Python is divided into three sections one for each of the domains healthcare finance and retail Each section starts with an overview of machine learning and key technological advancements in that domain You ll then learn more by using case studies on how organizations are changing the game in their chosen markets This book has practical case studies with Python code and domain specific innovative ideas for monetizing machine learning What You Will Learn Discover applied machine learning processes and principles Implement machine learning in areas of healthcare finance and retail Avoid the pitfalls of implementing applied machine learning Build Python machine learning examples in the three subject areas Who This Book Is For Data scientists and machine learning professionals   Machine Learning Applications Indranath Chatterjee,Sheetal Zalte,2023-12-27 Machine Learning Applications Practical resource on the importance of Machine Learning and Deep Learning applications in various technologies and real world situations Machine Learning Applications discusses methodological advancements of machine learning and deep learning presents applications in image processing including face and vehicle detection image classification object detection image segmentation and delivers real world applications in healthcare to identify diseases and diagnosis such as creating smart health records and medical imaging diagnosis and provides real world examples case studies use cases and techniques to enable the reader s active learning Composed of 13 chapters this book also introduces real world applications of machine and deep learning in blockchain technology cyber security and climate change An explanation of AI and robotic applications in mechanical design is also discussed including robot assisted surgeries security and space exploration The book describes the importance of each subject area and detail why they are so important to us from a societal and human perspective Edited by two highly qualified academics and contributed to by established thought leaders in their respective fields Machine Learning Applications includes information on Content based medical image retrieval CBMIR covering face and vehicle detection multi resolution and multisource analysis manifold and image processing and morphological processing Smart medicine including machine learning and artificial intelligence in medicine risk identification tailored interventions and association rules AI and robotics application for transportation and infrastructure e g autonomous cars and smart cities along with global warming and climate change Identifying diseases and diagnosis drug discovery and manufacturing medical imaging diagnosis personalized medicine and smart health records With its practical approach to the subject Machine Learning Applications is an ideal resource for professionals working with smart

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Financial Data Resampling for Machine Learning Based Trading Tomé Almeida Borges,Rui Neves,2021-02-22 This book presents a system that combines the expertise of four algorithms namely Gradient Tree Boosting Logistic Regression Random Forest and Support Vector Classifier to trade with several cryptocurrencies A new method for resampling financial data is presented as alternative to the classical time sampled data commonly used in financial market trading The new resampling method uses a closing value threshold to resample the data creating a signal better suited for financial trading thus achieving higher returns without increased risk The performance of the algorithm with the new resampling method and the classical time sampled data are compared and the advantages of using the system developed in this work are highlighted **Mining Data for Financial Applications** Valerio Bitetta,Ilaria Bordino,Andrea Ferretti,Francesco Gullo,Giovanni Ponti,Lorenzo Severini,2021-01-14 This book constitutes revised selected papers from the 5th Workshop on Mining Data for Financial Applications MIDAS 2020 held in conjunction with ECML PKDD 2020 in Ghent Belgium in September 2020 The 8 full and 3 short papers presented in this volume were carefully reviewed and selected from 15 submissions They deal with challenges potentialities and applications of leveraging data mining tasks regarding problems in the financial domain The workshop was held virtually due to the COVID 19 pandemic Information Extraction from the GDELT Database to Analyse EU Sovereign Bond Markets and Exploring the Predictive Power of News and Neural Machine Learning Models for Economic Forecasting are available open access under a Creative Commons Attribution 4 0 International License via link springer com

Machine Learning and Metaheuristics Algorithms, and Applications Sabu M. Thampi,Selwyn Piramuthu,Kuan-Ching Li,Stefano Berretti,Michal Wozniak,Dhananjay Singh,2021-02-05 This book constitutes the refereed proceedings of the Second Symposium on Machine Learning and Metaheuristics Algorithms and Applications SoMMA 2020 held in Chennai India in October 2020 Due to the COVID 19 pandemic the conference was held online The 12 full papers and 7 short papers presented in this volume were thoroughly reviewed and selected from 40 qualified submissions The papers cover such topics as machine learning artificial intelligence Internet of Things modeling and simulation disctibuted

computing methodologies computer graphics etc **Machine Learning Applications in Non-Conventional Machining Processes** Bose, Goutam Kumar,Pain, Pritam,2021-02-05 Traditional machining has many limitations in today s technology driven world which has caused industrial professionals to begin implementing various optimization techniques within their machining processes The application of methods including machine learning and genetic algorithms has recently transformed the manufacturing industry and created countless opportunities in non traditional machining methods Significant research in this area however is still considerably lacking Machine Learning Applications in Non Conventional Machining Processes is a collection of innovative research on the advancement of intelligent technology in industrial environments and its applications within the manufacturing field While highlighting topics including evolutionary algorithms micro machining and artificial neural networks this book is ideally designed for researchers academicians engineers managers developers practitioners industrialists and students seeking current research on intelligence based machining processes in today s technology driven market **Innovative Computing Vol 1 - Emerging Topics in Artificial Intelligence** Jason C. Hung,Jia-Wei Chang,Yan Pei,2023-04-30 This book comprises select peer reviewed proceedings of the 6th International Conference on Innovative Computing IC 2023 The contents focus on communication networks business intelligence and knowledge management web intelligence and fields related to the development of information technology The chapters include contributions on various topics such as databases and data mining networking and communications web and Internet of Things embedded systems soft computing social network analysis security and privacy optical communication and ubiquitous pervasive computing This volume will serve as a comprehensive overview of the latest advances in information technology for those working as researchers in both academia and industry **Soft Computing and its Engineering Applications** Kanubhai K. Patel,Gayatri Doctor,Atul Patel,Pawan Lingras,2022-05-06 This book constitutes the refereed proceedings of the Third International Conference on Soft Computing and its Engineering Applications icSoftComp 2021 held in Changa India in December 2021 Due to the COVID 19 pandemic the conference was held online The 29 full papers and 4 short papers presented were carefully reviewed and selected from 247 submissions The papers present recent research on theory and applications in fuzzy computing neuro computing and evolutionary computing **FFIT 2023** William Yeoh,Wan Mohd Nasir Wan Kadir,2023-10-26 This book contains the proceedings of the 2nd International Conference on Financial Innovation FinTech and Information Technology FFIT 2023 held in Chongqing China from July 7th to 9th 2023 FFIT 2023 focuses on Economic statistics under big data Financial risk control Economic Modeling and Software Engineering Accounting and Financial Information Systems Innovative Supply Chain Financial Services and other fields The aim of the conference is to provide a platform for experts scholars engineers technicians and technical R D personnel to share scientific research achievements and cutting edge technologies understand academic development trends expand research ideas strengthen academic research and discussion and promote the industrialization cooperation of academic achievements We

hope that this conference will continue to be held in the coming years making it an ideal platform for people to share views and experiences in financial innovation and economic development and related areas We would also like to thank the invited speakers for their valuable contributions and for sharing their perspectives during their speeches *Smart Computing* Mohammad Ayoub Khan,Sanjay Gairola,Bhola Jha,Pushkar Praveen,2021-05-12 The field of SMART technologies is an interdependent discipline It involves the latest burning issues ranging from machine learning cloud computing optimisations modelling techniques Internet of Things data analytics and Smart Grids among others that are all new fields It is an applied and multi disciplinary subject with a focus on Specific Measurable Achievable Realistic Timely system operations combined with Machine intelligence Real Time computing It is not possible for any one person to comprehensively cover all aspects relevant to SMART Computing in a limited extent work Therefore these conference proceedings address various issues through the deliberations by distinguished Professors and researchers The SMARTCOM 2020 proceedings contain tracks dedicated to different areas of smart technologies such as Smart System and Future Internet Machine Intelligence and Data Science Real Time and VLSI Systems Communication and Automation Systems The proceedings can be used as an advanced reference for research and for courses in smart technologies taught at graduate level *Computational Intelligence and its Applications* Vikash Yadav, Vimal Kumar, Sonam Gupta, Vandana Dixit Kaushik,2025-03-14 Computational Intelligence and its Applications explores cutting edge advancements in machine learning data science and their practical applications This comprehensive guide caters to college students researchers and professionals equipping readers with the knowledge to navigate and leverage the latest trends in computational intelligence effectively Key Features Emerging Technologies Covers post quantum cryptography secure communication and advancements in chatbot technology Practical Applications Includes stock price prediction cloud computing and data driven DNA sequencing Security and Detection Enhances intrusion detection and analyzes crop disease using machine learning Natural Language Processing Explores sentiment analysis and the impact of big data on natural language processing Advanced Techniques Discusses blockchain technology remote sensing and depression detection on social media <u>Digital Economy, Business Analytics, and Big Data Analytics Applications</u> Saad G. Yaseen,2022-09-26 This book is about turning data into smart decisions knowledge into wisdom and business into business intelligence and insight It explores diverse paradigms methodologies models tools and techniques of the emerging knowledge domain of digitalized business analytics applications The book covers almost every crucial aspect of applied artificial intelligence in business smart mobile and digital services in business administration marketing accounting logistics finance and IT management This book aids researchers practitioners and decisions makers to gain enough knowledge and insight on how to effectively leverage data into competitive intelligence **Advances in Practical Applications of Agents, Multi-Agent Systems, and Digital Twins: The PAAMS Collection** Philippe Mathieu,Fernando De la Prieta,2024-11-18 This book constitutes the refereed proceedings of the 22nd International Conference on Practical Applications of Agents and

Multi Agent Systems PAAMS 2024 held in Salamanca Spain during June 26 28 2024 The 26 full papers and 6 short papers included in this book were carefully reviewed and selected from 64 submissions The PAAMS 2024 proceedings focus on the development and deployment of agents and multi agent systems and their real world applications   Applications of Artificial Intelligence and Machine Learning Ankur Choudhary,Arun Prakash Agrawal,Rajasvaran Logeswaran,Bhuvan Unhelkar,2021-07-27 The book presents a collection of peer reviewed articles from the International Conference on Advances and Applications of Artificial Intelligence and Machine Learning ICAAAIML 2020 The book covers research in artificial intelligence machine learning and deep learning applications in healthcare agriculture business and security This volume contains research papers from academicians researchers as well as students There are also papers on core concepts of computer networks intelligent system design and deployment real time systems wireless sensor networks sensors and sensor nodes software engineering and image processing This book will be a valuable resource for students academics and practitioners in the industry working on AI applications   **Advances in Data Computing, Communication and Security** Pankaj Verma,Chhagan Charan,Xavier Fernando,Subramaniam Ganesan,2022-03-28 This book is a collection of high quality peer reviewed contributions from the academicians researchers practitioners and industry professionals accepted in the International Conference on Advances in Data Computing Communication and Security I3CS2021 organized by the Department of Electronics and Communication Engineering in collaboration with the Department of Computer Engineering National Institute of Technology Kurukshetra India during 08 10 Sep 2021 The fast pace of advancing technologies and growing expectations of the next generation requires that the researchers must continuously reinvent themselves through new investigations and development of the new products The theme of this conference is devised as Embracing Innovations for the next generation data computing and secure communication system   **Emerging Technologies for Computing, Communication and Smart Cities** Pradeep Kumar Singh,Maheshkumar H. Kolekar,Sudeep Tanwar,Sławomir T. Wierzchoń,Raj K. Bhatnagar,2022-04-21 This book presents best selected papers presented at the Second International Conference on Emerging Technologies for Computing Communication and Smart Cities ETCCS 2021 held on 21 22 August 2021 at BFCET Punjab India IEI India members supported externally It is co organized by Southern Federal University Russia University of Jan Wy ykowski UJW Polkowice Poland SD College of Engineering Technology Muzaffarnagar Nagar India as an academic partner and CSI India for technical support The book includes current research works in the areas of network and computing technologies wireless networks and Internet of things IoT futuristic computing technologies communication technologies security and privacy   **Advances in Computational Intelligence and Its Applications** Sheikh Fahad Ahmad,Shadab Siddiqui,Rajib Debnath,Kakali Das,Figlu Mohanty,Sumit Hazra,2024-06-07 It is with great pleasure and enthusiasm that we welcome you to the International Conference on Advances in Computational Intelligence and its Applications ICACIA 2023 In the ever evolving landscape of technology computational intelligence stands as a

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