

Stock Market Prediction Using Random Forest Algorithm

Ashwini Patil, Rushikesh Rajegaonkar, Sakshi Sapkale, Aarya Sawale

Department of Computer Engineering

Guru Gobind Singh College of Engineering and Research Centre Nashik, Maharashtra, India

ashwinisanjay25@gmail.com, rushikeshrajegaonkar@gmail.com,

sakshijs.12601@gmail.com, aaryasawale@gmail.com

Abstract: Investment is acknowledged as one of the powerful tools in the alleviation of poverty. Investors typically perform technical or fundamental analysis to determine favorable investment opportunities, and generally prefer to minimize risk while maximizing returns. They are supposed to be risk-adverse, safety oriented and guided by certainty of returns. The volatile nature of the stock market makes it difficult to apply simple time-series or regression techniques. The proposed work aims to involve more women in trading and investments in the stock market. The objective of this project is promoting women's sense of self-worth, their ability to determine their own choices, and their right to power up a social change for themselves and other fields. A defensive stock is a stock that provides consistent dividends and stable earnings regardless of the state of the overall stock market. With an aggregate level of knowledge and awareness, encouraging women to take part in the risk investment portfolios and change the behavior of looking towards a male dominated sector and become systematic in their investment in the stock market.

Keywords: Women, Stock Market, Defensive Stock Market, Prediction Techniques, Portfolios

Problem Statement: Among Indian Stock Traders, 16.1% of them are women compared to 76.6% which are men. Women just make savings to support their family and daily needs. Instead, we want them to achieve some personal goals by taking some risks and reap huge rewards. Women constitute half of the world's population but still lack in male dominated sector such as the stock market. In Economics, women can make enormous contributions whether in the stock market by investing some small amount in shares from their savings. We aim to promote women's sense of self-worth, their ability to determine their own choices, and their right to influence social change for themselves and others.

REFERENCES

- [1]. Rajni Jindal, Nikhil Bansal, Nitin Chawla, Sanskriti Singhal: "Improving Traditional Stock Market Prediction Algorithms using Covid-19 Analysis."
- [2]. Ashwini Pathak, Sakshi Pathak: "Study of Machine learning Algorithms for Stock Market Prediction, 2020. Vol. 9 pp 295-300."
- [3]. Jaspreet Kaur Theth, Jaspreet Kaur Theth, Hitakshi Pate, Prof. Vaishali Shirsath: "Stock Market Prediction and Portfolio Management using ML techniques"
- [4]. Mandeep Kaur, Tina Vohra: "Women and Stock Market Participation A Review of Empirical Evidence."
- [5]. Mandeep Kaur, Tina Vohra: "Women and Stock Market Participation A Review of Empirical Evidence."
- [6]. Shri Bharathi, Angelina Geetha: "Sentiment Analysis for Effective Stock Market Prediction"
- [7]. Jaspreet Kaur Thethi, Aditi Pandit, Hitakshi Patel, Prof. Vaishali Shirsath: "Stock Market Prediction and Portfolio Management using ML techniques."
- [8]. M.Ferni Ukritl, A.Saranya, Rallabandi Anurag: "Stock Market Prediction using Long Short Term Memory"

- [9]. Syed Saad Azhar Ali, Kamran Raza, Syed Hasan Adil, Mehak Usmani : “Stock Market Prediction using Machine Learning Techniques”
- [10]. Ray Chen, Marius Lazer: “Sentiment Analysis of Twitter Feeds for the Prediction of Stock Market Movement ”
- [11]. Sahil vazirani, Abhishek sharma and Pavika sharma: “Analysis of various machine learning algorithm and hybrid model for stock market prediction using python”
- [12]. Manolis Maragoudakis, Dimitrios Serpanos: “Towards Stock Market Data Mining Using Enriched Random Forests from Textual Resources and Technical Indicators”
- [13]. Subba Rao Polamuri, K. Srinivas, A. Krishna Mohan: “Stock Market Prices Prediction using Random Forest and Extra Tree Regression”, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-3, (September 2019)
- [14]. Jingyi Shen and M. Omair Shafq: “Short-term stock market price trend prediction using a comprehensive deep learning system”(2020).