

AI Driven Investment Strategies for Enhancing Stock Market Forecasting with Machine Learning Models

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ARTICLE INFO	ABSTRACT
Received: 14 Jan 2025 Revised: 24 Feb 2025 Accepted: 15 Mar 2025	<p>The swiftly changing stock market has generated interest in utilising Artificial Intelligence (AI) and Machine Learning (ML) for future predictions, as they may improve forecasting and decision-making abilities. Stock markets exhibit volatility and complexity, requiring efficient methods for prediction and decision-making. Traditional methods frequently inadequately represent complex market dynamics, leading to the rising significance of AI and ML. The main objective is to assess the precision of AI-based ML models in forecasting stock market trends. The research seeks to determine the factors affecting model efficacy and investment strategy. This research examines techniques for incorporating technology to improve forecasting models. This investigation utilizes a qualitative methodology in conjunction with reliable online resources and academic publications. The data includes several viewpoints on AI's ability to predict the future of finance, enabling a thorough assessment of current approaches and their effectiveness. Machine learning models demonstrate enhanced efficacy in particular market conditions, with data quality and feature selection being critical for accurate forecasts. This analysis examines the ramifications of these findings for real investors and politicians. The report concludes with recommendations for improving AI-based stock market trend predictions. It illustrates how machine learning could improve financial decision-making and suggests directions for future research. This study offers ideas to improve the predictive efficacy of AI-driven investment methods, ultimately helping investors make more informed choices. The ramifications reach beyond investors, financial institutions, and politicians navigating complex markets.</p> <p>Keywords: Artificial Intelligence (AI); Market Trends; Machine Learning (ML); Stock Market Forecasting.</p>

1. INTRODUCTION:

AI is a transformative force in the rapidly evolving financial sector. It alters operational methodologies and creates new prospects for investors and financial institutions (Rane et al., (2023); Bagó, (2023); Olan et al., (2022)). AI utilisation in forecasting financial trends has gained noteworthy traction owing to its ability to deliver predictions that are more precise, rapid, and beneficial than conventional methods (Buckley et al., (2021); Mhlanga, (2020)). Financial forecasting is essential for investment decision-making as it provides investors with insights into prospective market trends, and risks, along with opportunities. Traditional methods possess advantages and disadvantages; nonetheless, they often fail to accurately represent the complexity and rapid evolution of contemporary financial markets. Artificial Intelligence has appeared as a transformative technology that has revolutionized various sectors, counting banking (Rane et al., (2023); Weber et al., (2024); Ma, (2022)). AI-driven financial forecasting has the potential to revolutionize the field, since it occupies the nexus of finance and technology (Lee, (2020); Berdiyeva et al., (2021); Musleh Al-Sartawi et al., (2022)). Figure 1 below illustrates in detail the operational efficacy of AI-driven trading approaches over time.

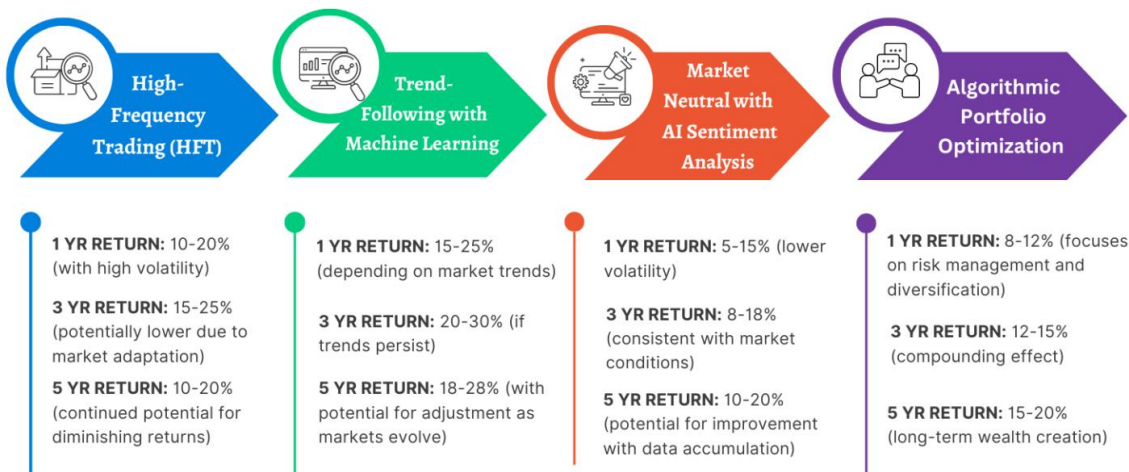


Figure 1: Performance of AI-driven trading strategies over time – An overview¹

This study examines the intricate relationship across AI-generated financial predictions and the formulation of investing strategies. It examines the various methods by which advanced technology, models, tools, and frameworks facilitate this process of transformation. This paper’s chief goal is to examine how AI-driven machine learning models might boost the accuracy and reliability of stock market predictions. This analysis examines several investment strategies and utilizes secondary data from online sources to evaluate their effectiveness in identifying the most optimal approaches. The subsequent section elaborates extensively on prior research pertinent to this topic.

2. LITERATURE REVIEW:

This study of AI-driven investment strategies for enhancing stock market forecasting with ML models is discussed in detail in the following table 1, which provides an overview of the previous literatures that are associated with this research.

Table 1: Related Works

AUTHORS AND YEAR	METHODOLOGY	FINDINGS
Sizan et al., (2023)	This study examined ML models' stock market forecasting performance. To gauge ML models, this study used US stock market data, including historical price trends, trade volumes, and economic factors.	By employing models like Random Forest (RF), investors may predict market volatility and adapt their portfolios to lessen losses.
Sonkavde et al., (2023)	This study explored supervised along with unsupervised ML, ensemble, time series analysis, and DL techniques for stock price prediction and classification.	Constructed a “RF + XG-Boost + LSTM” ensemble model to anticipate TAINIWALCHM and AGROPHOS stock prices and compares it to popular ML and DL models.
Olubusola et al., (2024)	This research employs a systematic literature review and content analysis to painstakingly investigate peer-reviewed journals, conference proceedings, and trustworthy institutional reports from 2010 to 2024.	Research suggested that integrating AI and ML can improve financial forecasting and decision-making, but ethical and effective integration requires addressing associated concerns. Financial leaders and governments should prioritize

¹ <https://navia.co.in/blog/12-ways-ai-revolutionizing-stock-market-in-2024/>

		innovation, AI literacy, along with international norms for AI application in finance.
Hung et al., (2024)	This study gauged how AI, ML, predictive analytics, and natural language processing are revolutionizing investment analysis in portfolio management.	In consecutive years, accuracy remained above 60%, peaking at 68.68% in 2018. This pattern shows our method's durability and efficacy. This cited study pointed out stable performance across market conditions.
Islam et al., (2025)	The main goal of this research was to create and assess ML models for predicting bitcoin prices. This study effort focused on Bitcoin (BTC), Ethereum (ETH), and other important cryptocurrencies in the US.	The accuracy of three ML models: Logistic Regression (LR), RF, and XGB. LR outperformed the other models with 56.03% accuracy.

2.1 Research Gap:

Significant advancements have been made in employing AI and ML to forecast stock market trends; yet, there remains a substantial gap in research about the efficacy of various AI-driven investment strategies across diverse market conditions. The majority of existing research has focused only on certain methods or datasets. They typically overlook the potential applications of these algorithms in various dynamic trading scenarios. Furthermore, there has been limited investigation into the impact of data quality, feature engineering, and model interpretability on the precision of investment decisions and forecasts. This work addresses these issues by conducting a comprehensive qualitative evaluation of secondary data to determine the efficacy and limitations of existing AI-based models. This will facilitate the development of more robust and adaptable forecasting frameworks.

3. METHODOLOGY:

This study utilizes a qualitative research technique to thoroughly gauge the efficacy of AI-driven investment strategies for stock market prediction. The methodology is organized on the methodical gathering, assessment, and analysis of secondary data, facilitating a comprehensive grasp of contemporary trends, methodologies, and deficiencies in the available literature. Secondary data is sourced from reputable online academic sources including IEEE Xplore, SpringerLink, Elsevier (ScienceDirect), Wiley Online Library, and Google Scholar, together with financial and industry-specific publications released from 2018 to 2025. The sources comprise peer-reviewed journal articles, conference papers, technical white papers, case studies, and financial assessments, collectively offering extensive insights into ML and AI models' utilisation in financial forecasting.

A deliberate sampling technique is utilized to guarantee the pertinence and quality of chosen materials. This entails the selection of papers according to established inclusion criteria, including an emphasis on AI/ML-based financial forecasting, investment strategy assessment, algorithmic trading, and model comparison within stock market contexts. Research focusing on the application of methodologies such as deep learning, support vector machines (SVM), long short-term memory networks (LSTM), reinforcement learning, and ensemble models in stock prediction is prioritized to ensure thematic coherence and analytical rigor.

The selected qualitative method for data analysis is content analysis. This entails a methodical coding procedure whereby the literature is analyzed to discern recurring themes, methodological strategies, empirical findings, performance metrics (e.g., precision, recall, RMSE, Sharpe ratio), and sector-specific ramifications. The analysis is descriptive and interpretive, seeking to reveal patterns in the AI/ML models' utilisation across various market circumstances, asset classes, and geographical regions. Particular emphasis is placed on evaluating model efficacy, data preprocessing methodologies, training dataset attributes, and outcome assessment metrics.

The process encompasses both textual analysis and framework building, as illustrated in Figure 2, which delineates the analytical paradigm employed for assessing AI-driven trading results. This framework delineates the process into several essential components: data collection and preprocessing, feature engineering, model training and validation, strategy simulation, risk assessment, and performance evaluation. Each component is correlated with particular insights derived from the literature to facilitate a systematic synthesis of data. This methodology enables the study to present a thorough, systematic, and critically reflective analysis of AI's role in financial forecasting, highlighting existing work while identifying gaps, limitations, and prospects for future research along with practical application in investment strategies.

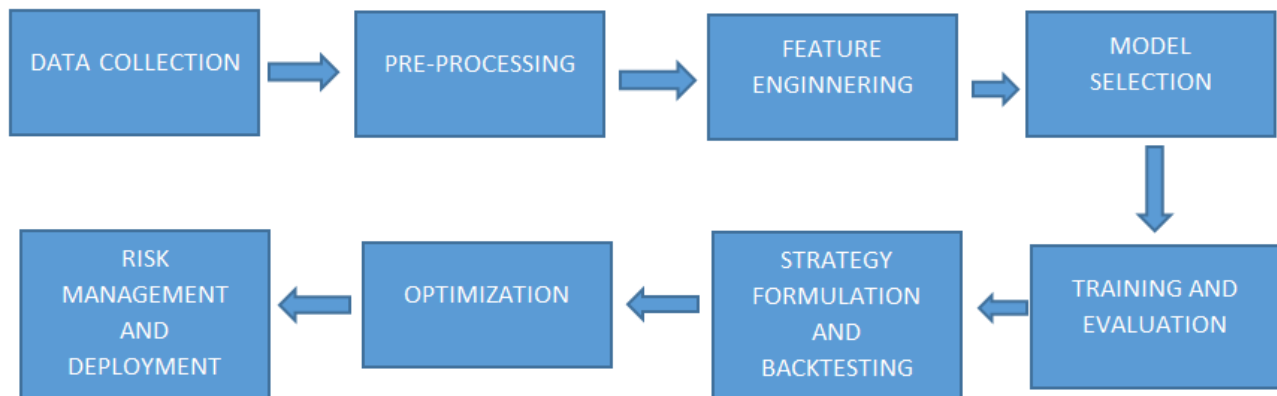


Figure 2: General structure for analysing trading results

4. RESULTS AND DISCUSSION:

This study examines the efficacy of AI-driven investment strategies in enhancing stock market predictions through ML models' utilisation. Literature frequently indicates that machine learning models significantly outperform traditional statistical and economic methods in predictive accuracy. Kumar et al. (2021) demonstrated that a thorough survey revealed that machine learning techniques, such as Artificial Neural Networks (ANNs), Support Vector Machines (SVMs), and ensemble methods (e.g., Random Forest, Gradient Boosting Machines), outperformed autoregressive integrated moving average (ARIMA) models in predicting the stock market through both classification and regression approaches. The research examined the efficacy of ML models in analysing non-linear financial time series characterized by significant noise, a recognized limitation of linear models.

Kumbure et al. (2022), in their comprehensive literature review published in *Expert Systems with Applications*, proved that DL architectures such as LSTM and Gated Recurrent Units (GRU) are effective in producing predictions. Their review categorized machine learning models into three classifications: shallow learning, ensemble learning, and DL. LSTM-based models were frequently selected owing to their ability to capture long-run temporal dependencies. This is a crucial feature for replicating stock values influenced by previous market behaviour trends. These models significantly outperformed in forecasting real-time financial occurrences, particularly during periods of market volatility. Tulli (2023) examined the role of machine learning beyond prediction, illustrating its potential contributions to financial management, innovation, and strategic investment decision-making. Machine learning algorithms were employed in his work to analyse extensive historical sales and market data, facilitating the development of improved cash allocation strategies. Tulli stated that stock forecasting has evolved from an isolated computing process to an integral component of a broader ecosystem of AI-driven business analytics, wherein predictive finance collaborates with strategic financial planning and business performance.

4.1 Application in Algorithmic and Systematic Trading:

In his book *ML for Algorithmic Trading*, Jansen (2020) adopted a practical methodology by utilizing ML pipelines in Python to implement real-world algorithmic trading strategies. He emphasized the necessity of using additional alternative data, like social media sentiment, economic indicators, and macroeconomic news, with conventional technical indicators to enhance predictive accuracy. Jansen (2020) demonstrated that AI systems can autonomously generate trading signals, execute transactions, and manage portfolios in high-frequency environments utilizing decision trees (DTs), LSTM networks, and reinforcement learning methodologies. Jansen's work is distinguished by its emphasis on the engineering pipeline, encompassing data collection, pre-processing, back testing, and deployment. This indicates

that predicted accuracy relies not just on the model but also on the effective integration of data engineering, feature selection, and risk management. He also discussed model overfitting, a significant issue in financial forecasting. He proposed employing techniques such as walk-forward optimization and cross-validation to ensure the models' applicability in diverse scenarios.

4.2 Comparative Model Evaluation and Sectoral Adaptation:

Manduva (2022) examined the utilisation of AI, ML, and DL in business planning and determined that deep neural networks and hybrid models are particularly adept at adapting to the financial requirements of various sectors. In finance, this entails adjusting models based on sector volatility, asset types, and trading volume. LSTM models may be more effective for volatile tech sector equities due to their sensitivity to sequence and momentum. Conversely, ensemble models like RF or XGB may perform more effectively for defensive sector stocks, as they can generate recommendations from noisier, less volatile datasets. Manduva also discussed the advantages of hybrid methodologies that integrate statistical models such as ARIMA with machine learning techniques. These models retain the optimal attributes of both realms: they are comprehensible and facilitate non-linear learning. These hybrid models are vital in financial reporting and portfolio management, where the ability to elucidate concepts is as essential as the capacity for precise forecasting.

This is a comprehensive Table 2 that elaborates on the various machine learning models employed in AI-driven investment strategies to enhance stock market predictions.

Table 2: Different ML Models using in stock market forecasting

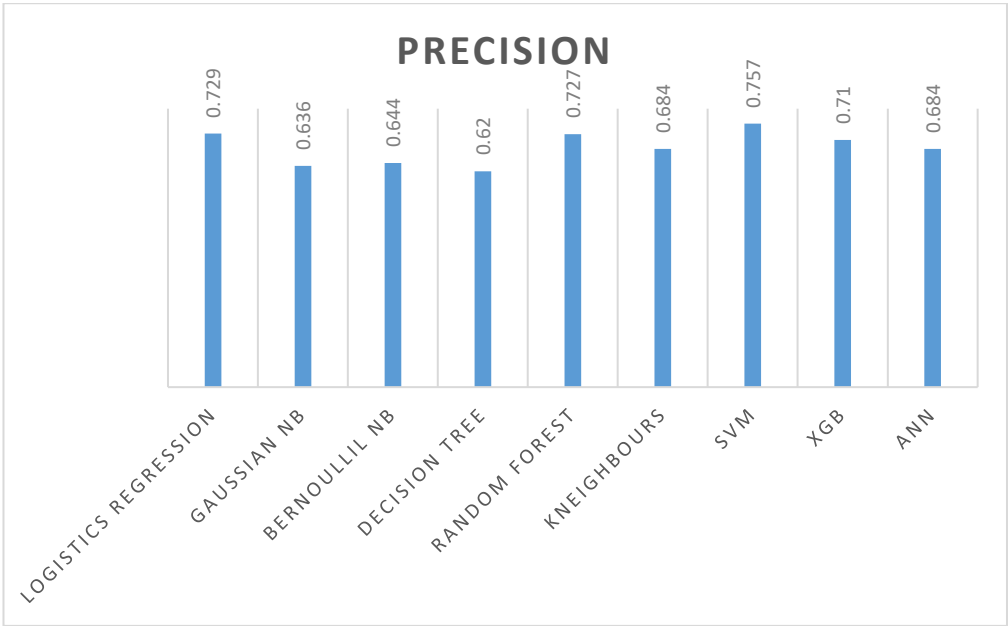
Model	Description	Application in Stock Forecasting	Strengths & Limitations
Linear Regression	A quantitative technique utilised to gauge and represent the relationship across different variables	Predicting stock prices based on historical linear trends	Simple and interpretable; limited in handling non-linearity
Support Vector Machine (SVM)	Classifies data by finding the optimal hyperplane	Predicting market direction (up/down movement)	Effective in high-dimensional spaces; sensitive to noisy data
Decision Trees	Tree-grounded model that splits data into decision nodes	Identifying investment opportunities based on rules	Easy to interpret; prone to overfitting if not pruned
Random Forest	Ensemble of multiple DTs	Stock ranking, price prediction, and risk classification	Reduces overfitting; less interpretable due to complexity
XGBoost	Gradient boosting framework for scalable tree boosting	High-performance stock forecasting with structured data	Fast and accurate; requires careful parameter tuning
k-Nearest Neighbours (k-NN)	Instance-grounded learning model using feature similarity	Predicting stock movement based on historical similarity	Simple to implement; performance degrades with high-dimensional data
Artificial Neural Networks (ANN)	Layers of interconnected nodes inspired by the human brain	Learning complex nonlinear relationships in stock price trends	Handles complex patterns; requires large datasets and computational resources
Long Short-Term Memory (LSTM)	A type of recurrent neural network suitable for time series data	Capturing long-run dependencies in stock market sequences	Excellent for sequential data; slow training and risk of overfitting

Reinforcement Learning	Model that learns optimal strategies by interacting with an environment	Automated trading systems that adapt to changing market conditions	Learns from experience; requires well-defined reward structure
Prophet (by Facebook)	Time series forecasting model designed for business forecasts	Stock price and trend forecasting with seasonality and trend components	Easy to use and interpretable; may not handle sudden market shocks effectively

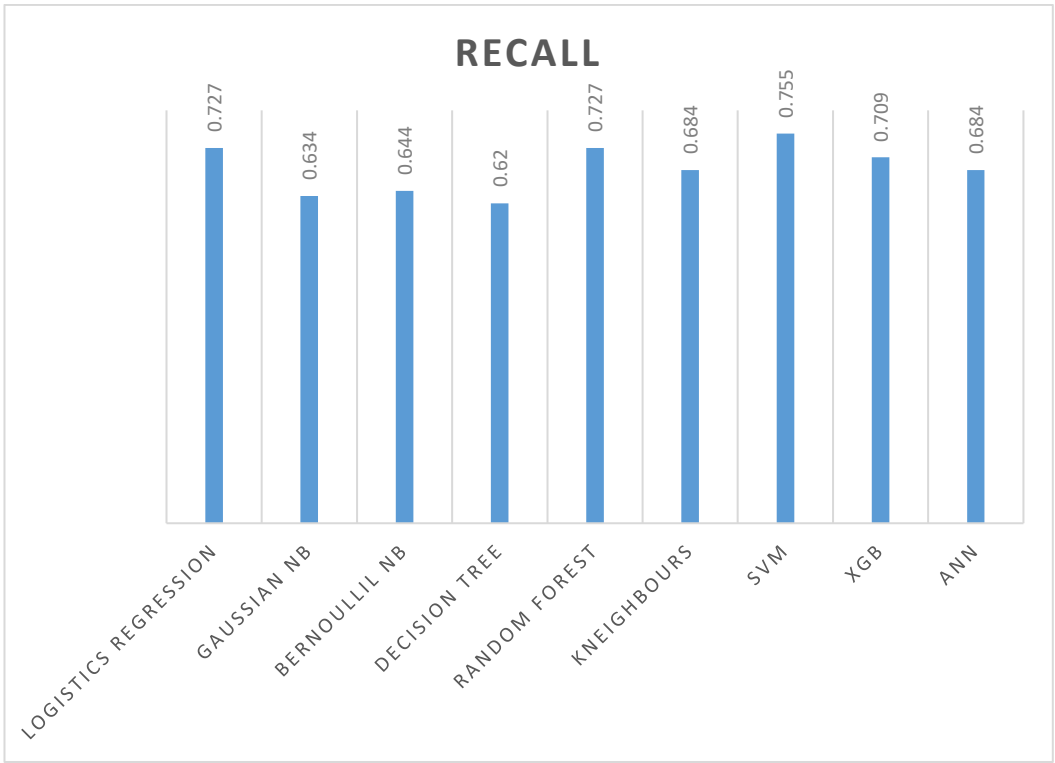
This work’s conclusions indicate that AI-enhanced forecasting models significantly improve the prediction of returns, portfolio optimization, and risk management. The models enable the rapid processing of extensive unstructured data, which is crucial for real-time stock trading and high-frequency strategies. LSTM and CNN-based models excel at identifying patterns and anomalies in time series data. This indicates that they can assist in making trading decisions with minimal human intervention. However, certain issues persist. Kumar et al. (2021), along with Kumbure et al. (2022), cautioned against excessive reliance on historical data in unpredictable markets. The issue of "data drift," occurring when market conditions evolve more rapidly than models can adapt, persists. Financial data is ever evolving, and models that perform effectively in certain economic conditions may be entirely ineffective in others. A significant concern is the ease of comprehension. Individuals often describe deep learning models as "black boxes," rendering them less effective in regulated environments where model decisions must be transparent. Tulli (2023) addressed ethical and operational concerns, including algorithmic bias, data privacy, and regulatory compliance. AI-driven projections based on ambiguous model logic can significantly impact finances, particularly in retail investments. Equity, transparency, and auditability are increasingly essential non-functional requirements for financial machine learning systems.

AI-driven forecasting is becoming vital for strategic investment decisions, beyond just technical performance. Manduva (2022) discussed the evolution of machine learning from a mere analytical instrument to a strategic enabler in contemporary enterprises. For investors and financial managers, the ability to analyse market conditions, assess the probability of trend alterations, and dynamically deploy capital based on real-time data transforms their investment strategies. Jansen (2020) demonstrated the functionality of AI inside comprehensive trading ecosystems, encompassing signal extraction and trade execution. This illustrates the convergence of financial engineering, software development, and machine learning in the creation of integrated AI trading platforms. Such systems not only reduce latency and transaction costs but also respond more swiftly to market disruptions, which is crucial for institutional traders.

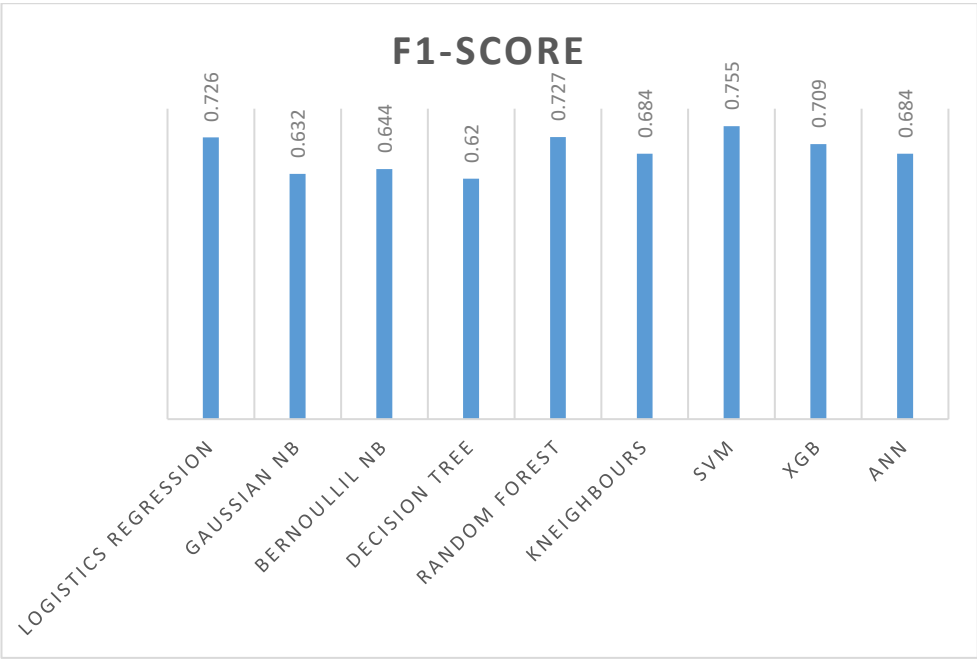
The research conducted by Mokhtari, Yen, and Liu (2021) examined various ML algorithms to predict stock market fluctuations. They concentrated on the potential of AI to enhance the accuracy of these predictions. Standard performance metrics such as precision, recall, F1-score, accuracy, and AUC were employed to gauge models including Logistic Regression (LR), Naïve Bayes (Gaussian and Bernoulli), Decision Trees (DT), Random Forests (RF), K-Nearest Neighbours (KNN), Support Vector Machines (SVM), XGBoost (XGB), and Artificial Neural Networks (ANN). The results indicated that SVM and XGB outperformed in predictive accuracy, particularly for precision (0.757 and 0.71), recall (0.755 and 0.709), and AUC (0.76 and 0.71). This demonstrates the robustness of these models in analysing stock market data. The research demonstrated that sophisticated models such as SVM and XGB outperform traditional methods in identifying market patterns. This substantiates the notion that AI-driven solutions may be advantageous for forecasting the future of banking. The aforementioned results are depicted in Figure 3 below.



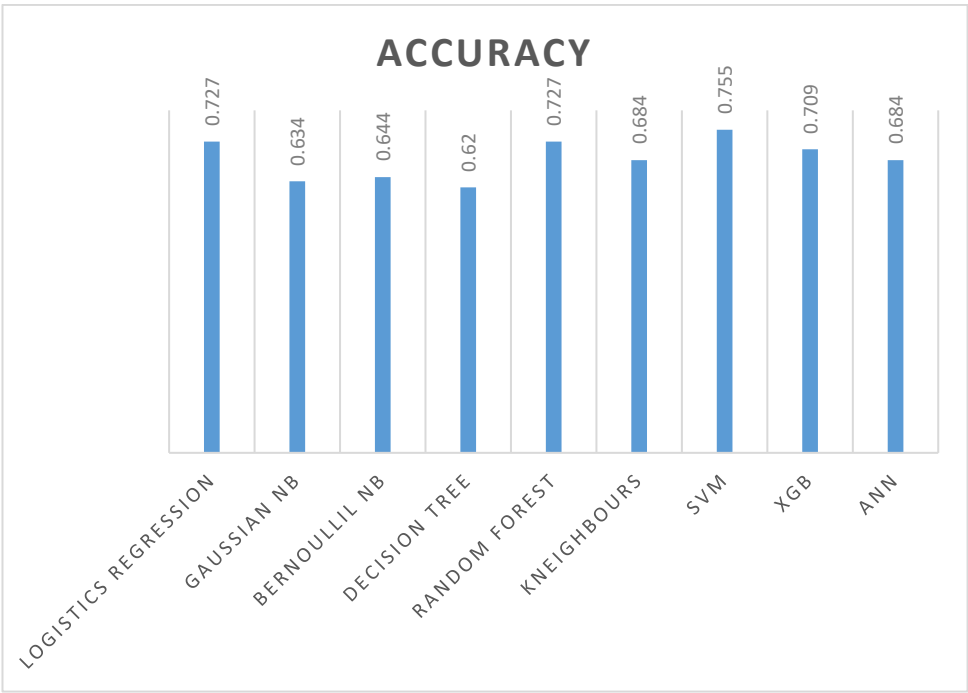
(a)



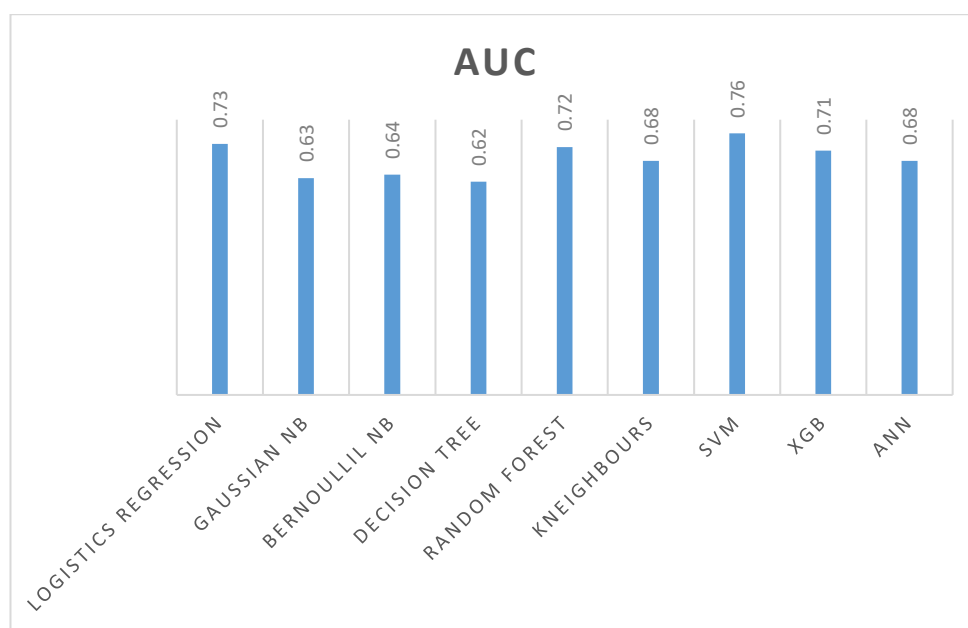
(b)



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(d)



(e)

Figure 3: Performance Metrics of different models (Mokhtari, Yen, and Liu, 2021)

In terms of model precision (figure 3 a) for this classification problem, Support Vector Machine (SVM) had the highest precision of the models tested, with a score of 0.757. This means that SVM is better at reliably recognizing positive occurrences than other models like Decision Tree and Gaussian NB, which have lower precision scores. SVM got the greatest recall score of 0.755 in recall (Figure 3 b), which means it was better at correctly identifying true positives than other models. SVM also has the highest F1 Score of 0.755 (figure 3 c), which shows that it did well at both precision and recall. In Accuracy (Figure 3 d), SVM again had the highest score at 0.755, which shows that its predictions were correct across all classes. With an AUC of 0.76, SVM showed the strongest capacity to tell the difference between classes at all thresholds in AUC (Figure 3 e). The Support Vector Machine (SVM) was the best classifier for the dataset since it had the highest precision, recall, F1-score, accuracy, and AUC scores compared to all the other models.

4.3 Interpretation of Results and Emerging Insights from AI-Driven Investment Forecasting:

This study shows that stock market forecasting is migrating from statistical to AI-based methods. SVM, LSTM, and XGB models perform well across studies, demonstrating their technical precision and ability to handle nonlinear, noisy, and highly dynamic financial data. AI technologies increase accuracy and alter financial modeling by enabling dynamic, real-time decision-making, portfolio optimization, and risk reduction that traditional models cannot. In the financial sector, where patterns and anomalies develop over time, deep learning architectures like LSTM and hybrid frameworks are successful because they can learn long-term correlations and temporal trends. These models excel in extreme volatility, when linear approaches like ARIMA fail. The research shows AI can incorporate unstructured input like social media sentiment and macroeconomic news into predicting algorithms. Jansen's engineering-driven approach uses machine learning pipelines with reinforcement learning and LSTM models to create realistic trading systems that extract signals, execute trades, and rebalance portfolios.

Hybrid intelligence systems integrate explainable classical models like ARIMA with powerful but opaque machine learning models, according to the research. These combinations improve forecasting, regulatory transparency, and stakeholder confidence, which are crucial in retail investment and institutional finance. Manduva (2022) review shows that model efficacy often depends on domain. Random Forest and XGB excel in stable, defensive sectors, but LSTM networks do better in dynamic situations like technology equities. This emphasizes the need for sector-specific AI forecasting methods over universal ones. The analysis found that finance requires interpretability, equality, and ethical AI systems, which is novel. Algorithmic bias, data drift, and regulatory compliance are major considerations for Tulli (2023) and Mokhtari et al., (2021). Although SVM and XGB have strong precision (0.757, 0.71) and recall (0.755, 0.709), they are often opaque. This opacity may hinder their uptake in regulated financial situations. Thus, performance

assessments and the creation of responsible AI systems that provide auditability, fairness, and contextual relevance will determine the future of AI inside stock forecasting.

This work suggests that AI will become a strategic facilitator for institutional investors, hedge funds, and government financial planning institutions rather than a tool for analysts. The convergence of financial engineering, machine learning, and real-time systems suggests that algorithmic decision-making will outperform human intuition in high-frequency scenarios. AI will move from a competitive advantage to a strategic need in investment decision-making frameworks as it improves.

4.4 Implications for Investors and Financial Stakeholders:

The results of this study are very helpful for investors, banks, and other people who are involved in the market since they help them make decisions that are more accurate and on time. AI-driven models like SVM, XGB, and LSTM make predictions more accurate and adaptable in markets that are very unstable and complicated. This helps to lower risk and take advantage of investing opportunities. Banks and other financial institutions can use these models to improve portfolio management, speed up trade execution, and make real-time forecasting more accurate. Also, using AI systems that are easy to understand and follow the rules helps with compliance and fosters confidence, which makes them useful for long-term, data-driven financial plans.

5. CONCLUSION:

This study highlights that AI-driven machine learning models, specifically SVM, LSTM, and XGB, significantly surpass conventional forecasting methods in stock market prediction. These models exhibit enhanced performance for accuracy, recall, precision, and flexibility, particularly when handling substantial amounts of noisy, non-linear, and time-sensitive financial data. The comparative research indicates that the SVM and XGB models exhibit high prediction accuracy (AUC: 0.76 and 0.71), demonstrating their effectiveness in discerning significant market patterns. Moreover, deep learning architectures like LSTM proficiently capture temporal dependencies, rendering them particularly advantageous in volatile market conditions. The results possess considerable practical significance. AI models facilitate superior investing decision-making through the enhancement of real-time forecasting, portfolio management, and automated trading methods. Financial institutions, hedge funds, and retail investors can utilize these models to minimize latency in trade execution, enhance returns, and adapt swiftly to market fluctuations. AI's incorporation into financial systems enhances risk management and regulatory compliance when combined with transparent, interpretable models. Subsequent research should concentrate on creating interpretable and ethically robust AI models. This encompasses the development of hybrid systems that integrate machine learning with financial theory, guaranteeing that models are responsive to market fluctuations via dynamic training pipelines, and incorporating fairness and auditability attributes. As financial markets progress, the development of context-aware AI systems will be crucial for reliable and sustainable forecasting solutions in global investment landscapes.

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