



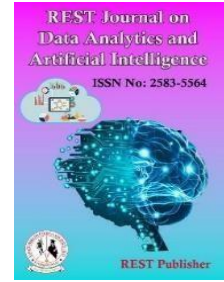
# REST Journal on Data Analytics and Artificial Intelligence

Vol: 3(4), December 2024

REST Publisher; ISSN: 2583-5564

Website: <http://restpublisher.com/journals/jdaai/>

DOI: <https://doi.org/10.46632/jdaai/3/4/4>



## The Impact of Artificial Intelligence on Financial Decision-Making Processes

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**Abstract:** This research seeks to delve into the role and theoretical structure of Artificial Intelligence (AI) within the realm of finance. The aim is to use AI as a conduit for spreading knowledge and information among finance enthusiasts, budding professionals, students, and those aspiring to a career in finance. This study revolves around three core objectives: First, to offer a thorough understanding of AI's function in finance; second, to showcase both classical and contemporary perspectives of AI in finance; and third, to survey literature and best practices associated with AI's utilization within the financial sector. These objectives lay the groundwork for a theoretical review of Artificial Intelligence as an emerging trend in finance. The study brings to light traditional and modern viewpoints on AI in finance, with emphasis on financial operations conducted with the aid of machines or Artificial Intelligence, devoid of fraudulent or error-prone practices. Data for this research has been sourced from a range of mediums, including books, academic articles, research papers, reports, websites, newspapers, and personal observations. The study's analysis segment is presented through tables and past figures, providing a lucid and succinct illustration of the findings. Through this research, we aim to deepen our understanding of the pivotal role AI plays in the financial sector and its prospective influence on the future of finance.

**Keywords:** AI, Financial Decision, Cyberattacks, financial literacy and financial markettrng, TOPSIS method, IoT Systems, Cloud Integration, Decision Matrix, Performance Metrics, Technology Implementation.

### 1. INTRODUCTION

This age inspires the learning of financial services through technology while maintaining traditional techniques. AI plays multiple roles in the current financial market, making it crucial for individuals to familiarize themselves with financial knowledge in the context of technological reform. Today, learners, students, and financial analysts need to learn and raise awareness about tech-driven financial knowledge. This knowledge is vital for everyone and helps promote financial literacy, enabling individuals to make efficient and effective use of financial resources. Financial education enhances personal abilities, knowledge, and habits through a localized understanding of financial literacy. Artificial Intelligence is primarily designed with two concepts in mind: understanding human thought processes and comprehending machine operations through a system (Patel, 2018).

The time has come to learn about the intersection of financial knowledge and technology. Financial knowledge aids in making the best decisions, which could stem from human intellect or artificial machines. This brings to light the role of AI in making financial decisions. Here are some aspects to consider when exploring AI in finance: round-the-clock access to learning, innovative and neural network services, flawless decision-making, fraud detection, increased efficiency, contribution to financial task automation, smart content learning, better engagement and reduced pressure.

Artificial Intelligence provides a platform for making optimal decisions with the help of machines. The machine allows us to learn, think, and transform set objectives into reality. Today, the most pressing issue in finance is decision-making. Every individual aspires to fulfill financial needs and contemplates how to best utilize money from the market. After the pandemic, it has become crucial to learn how to make flawless investment decisions and select the right investment avenues without any fraud or errors. During the pandemic, the income level of common citizens has decreased. Even the common goal of a general citizen is not accomplished sufficiently. This is the time to think about resolving financial issues. AI boosts the confidence to build up strong and favorable decisions for handling financial deeds while using traditional methods of finance. Machines can make flawless decisions with accuracy and according to the customer's preferences.

As technology progresses at an unprecedented pace, it's not surprising that Artificial Intelligence (AI) has emerged as a significant player in the world of finance. AI is revolutionizing finance in areas like investment decisions and risk management, altering how financial institutions make critical choices daily. As we look towards the future of decision-making in finance, it's crucial to understand the benefits and risks associated with implementing this ground breaking technology. In this study, we will delve into how AI is transforming traditional financial decision-making processes and what the future holds for the convergence of finance and technology.

Artificial Intelligence, often known as AI, refers to the capability of machines and computer programs to learn and perform tasks that typically require human intelligence. There are two main categories of AI: narrow AI and general AI. Narrow AI is designed to excel at specific tasks, such as image recognition or language translation. General AI aims to create machines that possess a level of cognitive ability similar to humans, essentially creating an artificial brain. AI has been around for decades, but it has recently gained more attention due to advancements in technology and increased interest from both businesses and consumers. Some examples of how AI is currently being used include chatbots for customer service interactions, fraud detection software for financial institutions, and even self-driving cars.

However, there are also concerns about the impact of AI on society, including job displacement and privacy concerns. As technology continues to evolve at a rapid pace, it will be interesting to see how this impacts the development of AI in new and innovative ways that we cannot yet imagine. AI has the potential to revolutionize the way financial decisions are made. By using machine learning algorithms, AI can analyze vast amounts of data and provide insights that humans may miss. One of the main benefits of using AI in financial decision-making is its ability to make predictions based on historical data. Machine learning algorithms can identify patterns and trends in financial markets, allowing traders and investors to make more informed decisions. Another advantage is that AI systems can work around the clock without getting tired or making mistakes due to fatigue. This means that financial institutions can process transactions faster and more accurately than ever before. Furthermore, AI's speed allows for real-time market conditions and risk monitoring. This enables banks and other financial institutions to react quickly to changes in market conditions, reducing their exposure to risk.

In addition, by automating routine tasks such as fraud detection or credit scoring, companies can reduce costs while increasing accuracy. This not only saves time but also improves customer experience by reducing errors related to manual processing. Artificial intelligence has numerous benefits when it comes to finance decision-making—from improved efficiency and accuracy through automation to better risk mitigation via real-time monitoring capabilities, all whilst providing valuable insights into underlying investment opportunities for traders across global markets with precision analysis thanks largely due towards machine learning innovation driving this technology forward today!

While the usage of artificial intelligence in financial decision-making is gaining popularity, there are also some associated risks. One risk is that AI systems can develop biases based on their fed data. If the data used to train an AI system contains inherent biases, then those biases will be reflected in its decision-making process. Another risk is that AI systems can make errors due to unforeseen circumstances or unexpected events. These errors could result in significant losses for businesses and investors alike.

Furthermore, there needs to be more transparency when it comes to using AI in finance. It may sometimes be unclear how decisions are being made by these systems, which could lead to mistrust from stakeholders. Cybersecurity issues also pose a threat as more financial institutions rely on technology for their operations. Cyberattacks targeting these institutions could have devastating consequences if proper security measures aren't taken.

**Need of the study:** Financial markets are complex, with vast amounts of data and intricate relationships between variables. AI can analyze and process this complexity far more efficiently than humans. AI can identify and mitigate risks more effectively by analyzing historical data, market trends, and macroeconomic indicators in real-time, helping financial institutions make more informed decisions. AI algorithms can forecast market trends, stock prices, and other financial indicators with greater accuracy, enabling investors to make better investment decisions and maximize returns. AI technologies can automate routine tasks such as data entry, portfolio management, and customer service, freeing up human resources to focus on higher-value activities like strategic planning and client relationship management. AI-powered systems can detect fraudulent activities and anomalies in financial transactions faster and more accurately than traditional methods, enhancing security and minimizing financial algorithms that can analyze customer preferences, behaviour, and risk profiles to offer personalized financial products and services, improving customer satisfaction and loyalty. Overall, studying AI in financial decision-making helps optimize processes, improve outcomes, and navigate the complexities of modern financial markets more effectively.

**Scope of the study:** The scope of AI in financial decision-making is vast and continually expanding. AI technologies such as machine learning, natural language processing, and predictive analytics are revolutionizing how financial institutions analyze data, detect patterns, and make decisions. AI enables more accurate risk assessment, fraud detection, algorithmic trading, personalized financial advice, customer service automation, and portfolio management optimization. Additionally, AI-powered chatbots and virtual assistants are improving customer interactions and enhancing overall user experience in financial services.

**Objectives of the study:** The study of the role of artificial intelligence in financial decision-making.

**Research Methodology:** This research study is focused on providing a comprehensive understanding of financial principles for new-age financial learners and management students. To achieve this objective, the study has utilized the desk and conceptual research method, which involves an extensive analysis of existing literature and concepts.



## 2. RESEARCH METHODOLOGY

This research study is focused on providing a comprehensive understanding of financial principles for new-age financial learners and management students. To achieve this objective, the study has utilized the desk and conceptual research method, which involves an extensive analysis of existing literature and concepts.

The study design is based on personal reading and observation and has a specific focus on the conceptual framework of artificial intelligence in financial performance. By exploring the role of artificial intelligence in financial performance, the study aims to provide a detailed analysis of the modern business world's challenges.

To gather data, the study has analyzed various secondary sources such as books, research papers, journal articles, internet reports, newspaper articles, and other relevant resources, which have been reviewed for data collection. The data has further been analyzed to identify patterns, trends, and relationships between different concepts.

The study aims to provide a detailed analysis of the subject matter that will enable financial learners and management students to gain a better understanding of financial principles and their application in real-world scenarios. The study's findings can assist these learners in preparing themselves for the challenges of the modern business world by providing insights into the role of artificial intelligence in financial performance.

### Sample size:

- The sample size for the research project is 100.

### Limitations of the study:

1. **Data Quality:** AI models heavily rely on data quality. If the data is incomplete, inaccurate, or biased, it can lead to flawed decision-making.
2. **Interpretability:** Many AI models, especially deep learning algorithms, are often considered "black boxes" because they lack interpretability. Understanding how and why a model made a particular decision can be challenging, especially in highly regulated industries like finance.
3. **Overfitting:** AI models can sometimes become overly complex and perform well on historical data but fail to generalize to new, unseen data. This phenomenon, known as overfitting, can lead to poor performance in real-world scenarios.
4. **Regulatory Compliance:** Financial decisions often come with strict regulatory requirements. AI models must comply with these regulations, which can be challenging to implement and monitor, especially given the opacity of some AI algorithms.
5. **Lack of Human Judgment:** AI models may not consider qualitative factors or exercise human judgment, which can be crucial in financial decision-making processes.
6. **Market Dynamics:** Financial markets are complex and influenced by various factors, including geopolitical events, economic indicators, and investor sentiment. AI models may struggle to incorporate these dynamic factors effectively.
7. **Cybersecurity Risks:** AI systems can be vulnerable to cyberattacks, including data breaches and adversarial attacks, which can compromise the integrity and security of financial decision-making processes.
8. **Ethical Concerns:** AI algorithms may unintentionally perpetuate or amplify biases present in historical data, leading to unfair or discriminatory outcomes in financial decision-making.

## 3. REVIEW OF LITERATURE

The following studies have been conducted to evaluate the impact of Artificial Intelligence (AI) on finance.

- 1 Bahrammirzaee (2010) examined how financial applications can change the behavior of financial decisions in uncertain situations. The study focused on the use of AI practices such as artificial hybrid systems, artificial neural network systems, and artificial expert systems in modern financial technology. The study found that AI is more accurate than traditional financial applications in predicting investment portfolio management decisions, credit

- evaluation decisions, financial planning, and prediction. However, future studies should investigate the performance outcome and overall effect of AI on financial applications.
- 2 Meryem Dungun Fethi (2009) assessed banking performance through the use of AI and presented the bank application of the O.R. technique for employment analysis and data operation. The study examined the use of neural networks, multi-criteria decisions, and support vector machines for the assessment of banking systems' underperformance. The study revealed that although profit efficiency and capacity efficiency were achieved, the prediction of the credit rating of banks and employees was not accurate due to biased results. It has been suggested that future research in the field of AI should focus on combining individual models to create integrated meta-classifiers.
  - 3 A study conducted in 2005 by Tina Yu explored the use of computational intelligence in finance, with a particular emphasis on economic financial paradigms and the historical perspective of Herbert Simon, a founder of AI. Simon proposed the use of AI in finance and economics measurement, and this study has proven to be fundamental in the field of economics. To design a strong computational structure for economic and financial stock price analysis, future decisions should be made based on these findings.
  - 4 Yu's study also found that the flow of capital could be modelled using genetic programming, which identified technical and trading rules in the international short-term capital market. Simulation modelling was found to be an efficient tool for providing guidelines for capital market techniques, particularly in the short-term capital market.
  - 5 In 2019, it was observed that AI is performing operational activities in the finance industry to make financial deeds more accessible, efficient, and profitable. AI is being used to examine structural risk and financial limitations, measure risk, and feed data code. This systematic risk observed in finance is being addressed with the help of AI. Further studies should take an inside perspective and cover a wide range of issues related to finance and AI techniques.
  - 6 In 2016, Lin T. explored the role of AI in the transformation of the financial industry through smart technology. The focus was primarily on financial technology. The field of finance has been greatly impacted by advancements in technology. It offers a range of techno-based services such as solving compliances, trading, banking functions, analysis, financial measurement and prediction, optimization, and evaluation of changes in financial areas. A recent study focused on the role of technology in bringing about larger changes in financial activity and transforming classical scenarios into new modern financial technical scenarios. This has resulted in the invention of new financial technology, and further studies are required to develop more modern finance technology to revolutionize the financial scenario.
  - 7 According to Kristin Johnson's 2019 report, innovations in finance through artificial intelligence and machine learning have enabled flawless financial decision-making by machines in China. Presently, consumers are using fintech through their smartphones and tablets to make financial decisions related to credit and safety for money in banking and non-banking institutions. This has enabled the promotion of accountability, transparency, and financial technology in the finance industry and its operations.
  - 8 Bharti Kumari's January 2021 report described the adaptation of artificial intelligence in finance and proposed the design of a system for financial technology that is best for better and optimum financial services. The report emphasized the need for new financial modeling to inculcate awareness about artificial intelligence in the finance sector. The proposed design feeds the forward loop, dynamic approaches, and model of the conceptual framework of AI in finance. Further studies should focus on the implementation of AI in financial sectors.
  - 9 It is interesting to note that Belanche, Casaló, and Flavián (2019) suggest that blockchain technology is the most promising advancement in the financial industry as it provides enhanced account security and reduced transaction fees for consumers. This not only improves customer satisfaction but also reduces the workload on human representatives. Additionally, AI in financial decision-making has led to increased transparency through the collection of precise and timely client information. Financial institutions are now able to gain deeper insights into customer behavior and preferences, which enables them to provide personalized advice, products, and services. These intelligent systems can also quickly analyze vast amounts of data, providing valuable insights into market trends, risk assessments, and investment opportunities. Overall, AI has immense potential to revolutionize the financial industry.
  - 10 According to Tambe, Cappelli, and Yakubovich (2019), one significant area of influence of AI in the financial sector is automating routine tasks and processes. This automation can enhance operational efficiency, enabling institutions to streamline their workflows and allocate resources more effectively. Additionally, AI algorithms can analyze historical data and real-time market conditions to identify trends and predict market behaviors accurately. This information can help financial professionals make informed investment decisions, optimize their investment strategies, and maximize returns. AI can also play a crucial role in detecting and preventing fraud by

analyzing vast amounts of transactional data and identifying anomalous patterns that may indicate fraudulent activities.

- 11 Riikkinen, Saarijärvi, Sarlin, & Lähteenmäki, (2018) assimilation of AI technologies has truly revolutionized these domains, facilitating more precise and efficient decision-making processes. By meticulously scrutinizing vast volumes of data, AI systems possess the remarkable ability to discern intricate patterns that might otherwise elude human perception. The utilization of AI algorithms plays a pivotal role in constructing robust models that aid in identifying deceitful behavior, thereby ensuring heightened accuracy and effectiveness.
- 12 Guresen, Kayakutlu, & Daim, (2011), financial analysis has experienced a remarkable transformation owing to the advancements in AI. Traditional methods of analysis, constrained by human capacity and subjectivity, have been outstripped by the extraordinary capabilities of AI. The impact of AI on risk management has also been profound algorithms possess the capacity to analyze extensive volumes of data, thereby facilitating the identification of concealed risks and the implementation of proactive measures. The reliance on AI systems necessitates a comprehensive understanding of their limitations and the potential biases they may introduce. Upholding transparency, accountability, and ethical usage of AI in financial decision-making processes is of paramount importance to maintain trust and safeguard against unintended consequences.
- 13 Davenport & Ronanki, (2018) the significant costs associated with the adoption of AI solutions. The intricacies inherent in AI technologies demand a workforce equipped with the expertise to effectively execute and manage these intricate systems. It becomes imperative for organizations seeking to leverage the boundless potential of AI to ensure the presence of a readily accessible pool of such adept professionals within the marketplace. The impact of AI on financial decision-making transcends a singular facet and encompasses a myriad of dimensions.
- 14 Popenici & Kerr, (2017)., AI algorithms are endowed with the ability to process colossal volumes of historical market data, discern subtle patterns, and prognosticate future trends with an exalted degree of accuracy. Consequently, AI-powered investment platforms and robo-advisors have garnered widespread popularity, empowering investors to make well-informed decisions founded upon objective data analysis, instead of succumbing to subjective emotions.
- 15 Jarrahi, (2018), AI algorithms possess the capacity to analyse market trends, identify lucrative investment opportunities, and optimize portfolio management strategies. By leveraging AI's prowess in processing and scrutinizing extensive datasets, financial decision-makers can make more enlightened investment choices, bolster portfolio performance, and maximize returns. The profound impact of AI on financial decision-making is undeniable. The realm of asset and investment management has entered a phase of growing receptiveness towards the adoption of decision intelligence, which paves the way for exploring and implementing various promising use cases. Among these, one particularly notable application involves harnessing alternative data sources, such as weather forecasts, online sentiment regarding companies, media coverage, and more. The objective is to enhance the process of making investment decisions and refining hedging strategies

#### 4. THEORETICAL FRAMEWORK

As the use of artificial intelligence (AI) in financial decision-making continues to grow, various theoretical frameworks have been developed to study its ethical implications. These frameworks are based on fundamental ethical principles such as transparency, accountability, and fairness. Rest's four-component model of antecedents for ethical decision-making is one such framework that can be applied to AI-based decision-making in accounting. It identifies four components that contribute to ethical decision-making: moral sensitivity, moral judgment, moral motivation, and moral character. Each component is vital when considering the ethical challenges of AI-based decision-making in accounting, such as objectivity, privacy, transparency, accountability, and trustworthiness.

Objectivity in AI-based decision-making can be compromised if the algorithm is designed to prefer certain outcomes over others. This can lead to biased decision-making, which can have serious consequences. Privacy is another challenge, as personal data may be at risk if AI systems are not adequately protected. Transparency and accountability are also essential, as stakeholders need to understand how AI-based decisions are made and who is responsible for them. Finally, trustworthiness is critical, as stakeholders need to have confidence in the accuracy and fairness of the decisions made by AI systems.

Similarly, the governance of AI in the banking sector can be examined through the lens of fairness, transparency, and accountability. This involves a focus on relevant areas of law and legal principles such as direct and indirect discrimination and bona fide justification. The use of AI-based decision-making systems may discriminate against

certain groups of people if they are trained on biased data or if they are not designed to consider the unique circumstances of each individual case.

In conclusion, ethical frameworks based on transparency, accountability, and fairness can help us understand the potential benefits and ethical concerns of using AI in financial decision-making. By considering these frameworks when designing and implementing AI-based decision-making systems in accounting and banking, we can create robust AI governance frameworks that protect the interests of all stakeholders involved. There are several theoretical frameworks used to study AI in financial services. These include the TCCM framework, systems approach, and quantitative research methodology. The TCCM framework is used to identify the explored contexts and research foci and to set a comprehensive agenda for future research. The systems approach is used to develop an interpretive structural model (ISM) of the enabling factors for the adoption of AI technology in the finance sector. Quantitative research methodology is used to validate hypotheses and analyze the impact of accounting information system components on the knowledge robustness of financial reports. These frameworks provide a systematic and structured approach to studying AI in financial services, allowing for a better understanding of its impact and potential.

There are several frameworks that researchers and experts use to analyze the implementation of artificial intelligence (AI) in financial services. These frameworks include the TOE framework, legal-dogmatic and theoretical methods of formal and dialectical logic, and the perspective of artificial intelligence. Together, they provide a solid foundation for analyzing the legal regulation of AI in the financial sector, developing smart accounting management models, and identifying the factors that drive or inhibit successful AI applications in finance.

The TOE framework focuses on the role of AI-specific role models and process competencies in the finance industry. This means that the framework examines how AI is used in finance, what kind of AI is used, and how these technologies are integrated into different aspects of the industry. The legal-dogmatic and theoretical methods of formal and dialectical logic, on the other hand, help interpret legal norms and address regulatory goals related to market security and consumer protection. This framework helps ensure that AI is implemented in a way that is fair, transparent, and accountable.

Finally, the perspective of artificial intelligence offers insights into the impact of AI technology on financial management modes and the development of accounting-sharing services. This framework helps us understand how AI can be used to improve financial services and how it can be integrated into existing systems. By understanding the impact of AI on these systems, we can better prepare for the future and ensure that AI is used in a way that benefits everyone.

These frameworks help us better understand the adoption of AI in financial services and its implications for consumers and businesses. For instance, financial institutions can benefit from the use of AI in making more informed investment decisions. One of the ways AI can help is through "pattern recognition and predictive analytics." This involves analyzing data to identify patterns and make predictions about future outcomes. This powerful tool can provide individuals and businesses with data-driven insights for informed decision-making.

By analyzing data, patterns, and trends that would otherwise not be immediately apparent, we can make better decisions and ultimately achieve more successful outcomes. Additionally, AI can analyze large volumes of data to detect patterns that may result in loan defaults or credit risk. This can help financial institutions identify potential risks and take steps to mitigate them, which can lead to better outcomes for everyone involved.

### **Objective: The study of the role of artificial intelligence in financial decision-making**

Financial institutions are facing increasing pressure to incorporate societal expectations into their business plans. As a result, the concept of corporate sustainability has expanded, allowing stakeholders and employees to explore alternative methods of gaining a competitive advantage. Promoting sustainable practices and development in the financial industry requires careful financial management. Institutions have started using Artificial Intelligence (AI) in their monetary administration activities to achieve this. Certain financial procedures, such as credit decision-making, have improved significantly due to the implementation of AI methodologies.

Financial managers have successfully used this strategy to oversee and manage all organizational administrative activities and transactions. Artificial Intelligence (AI) has transformed the finance industry by enabling firms to reduce costs, enhance value, and improve support services for customers. AI is used for various tasks such as fraud detection, market analysis, and risk assessment, among others. These technical advancements have significantly boosted security and transparency in financial transactions worldwide. The effectiveness of AI in advancing international economic transactions can be evaluated through research and discussions on its implementation in economic management.

The fields of applied economics, econometrics, and finance have developed numerous econometric models that are still useful in risk assessment, project generation, and money management.

In the past, technology was unable to handle complicated projects. However, with the help of AI, various solutions can be generated for even complex projects. In the finance field, AI can assist with financial product suggestions, insurance premium calculations, stock price predictions, and future gains and losses predictions, among other things. The list is endless.

From the above information, it is apparent that financial business management has evolved and become more adaptable to new methods of operation. Financial management is heavily reliant on consumer data collection, which indicates that it depends greatly on data mining. Therefore, the primary use of artificial intelligence and machine learning in the finance sector must be defined. Many companies and governments are using AI and machine learning methods to protect the interests of consumers. AI & ML aid in the control of financial frauds such as bank fraud (mortgage fraud, credit card fraud, and money laundering), insurance fraud (healthcare insurance fraud & motor insurance fraud), and company fraud (alterations/fabrications in financial statements fraud, share market-related fraud).

### **Data Analysis and Interpretations**

1. The majority of respondents are in the age group of 18-25 years (87.3%), with a smaller portion in the 25-30 age group (11.8%).
2. Most respondents are unmarried (84.5%), with a smaller percentage being married (15.5%).
3. In terms of annual income, most respondents (63.1%) have no income, followed by those in the below 3L category (18.4%), the 3L-5L category (13.6%), and the 5L-7L category (4.9%).
4. When asked about familiarity with AI in financial decision-making, 46.6% are somewhat familiar, 40.8% are very familiar, and 12.6% are not familiar at all.
5. Regarding the use of AI-powered financial tools, 41.7% have used them, 41.7% have not, and 16.5% are unsure.
6. The majority of respondents (28.2%) rely on AI algorithms for making financial decisions daily.
7. When asked if AI algorithms can outperform human financial advisors, 42.7% said yes, 29.1% were unsure, and 28.2% said no.
8. In terms of concerns about privacy and security when using AI-powered tools, 46.6% said yes, 22.3% were somewhat concerned, and 31.1% were not concerned.
9. When asked if AI can accurately predict market trends, 40.6% said yes, sometimes, 23.8% said no, not reliably, 21.8% said yes always, and 13.9% were unsure.
10. Regarding willingness to pay more for AI-enhanced financial services, 39.2% said it depends on the specific benefits, 36.3% said yes, and 24.5% said no.
11. When asked if they would be comfortable receiving financial advice solely from an AI system, the majority (48%) said it depends on the situation, and the least (25.5%) said no.
12. In terms of concern about potential job displacement caused by AI, the majority were neutral (43.1%), and the least were not concerned (7.8%).
13. When asked how AI can help in reducing financial fraud, the majority chose all of the above, and the least (4.9%) chose none of the above.
14. When asked if they trust AI algorithms to make financial decisions on their behalf, the majority (45.1%) said yes, to some extent, and the least (18.6%) said no, not at all.
15. In terms of knowledge of AI, the majority are beginners (32.4%), and the least are experts (17.6%).
16. When asked if they would be comfortable receiving financial advice solely from an AI system, the majority (38.2%) said maybe, and the least (25.5%) said no.



17. When asked if they have experienced any drawbacks or challenges while using AI-based financial services, the majority (53%) said yes, and the least (46.1%) said no.
18. When asked how AI will continue to impact the financial industry in the future, the majority (39.2%) chose all of the above, and the least (2.9%) chose none of the above.

## FINDINGS AND CONCLUSION

### Findings:

- The survey predominantly comprises respondents aged between 18-25 years, indicating a youthful demographic skew, with a significant majority of 87.3%. Conversely, respondents aged 25-30 represent a notably smaller portion, comprising only 11.8% of the total sample.
- The data suggests that a substantial portion, 84.5%, of the respondents are unmarried, while the remaining 15.5% are married. This indicates a larger representation of unmarried individuals in the survey sample.
- Many respondents, totaling 63.1%, fall into the category of having no income. Additionally, the data reveals that 18.4% belong to the below 3L income bracket, followed by 13.6% in the 3L-5L category, and 4.9% in the 5L-7L category, respectively.
- Regarding familiarity with a particular subject, the survey indicates that the largest proportion of respondents, at 46.6%, consider themselves somewhat familiar, followed by 40.8% claiming to be very familiar, while 12.6% reported being not familiar at all.
- Many respondents, constituting 41.7%, express agreement with a certain viewpoint, followed closely by an equal proportion, 41.7%, expressing disagreement. Additionally, 16.5% of respondents remain unsure about their stance on the issue.

**Conclusion:** The research concludes that AI has great potential to increase flawless transactions and decisions, benefiting both public and corporate funds and accounts by providing better security. The study has developed digital platforms that cater to individuals and corporations, ensuring error-free personal financial planning. Future studies should focus on making smarter decisions for financial goals and designing smart investment plans based on the income level of investors. In summary, AI is beneficial for all circumstances and can handle multiple financial tasks, making it a reliable technology for good results, better learning, and progress in the long run.

Artificial intelligence is becoming increasingly important in the world of finance, enabling smooth and error-free financial transactions. In the near future, machines may make decisions without the need for human intervention, minimizing the risk of fraud or errors. AI is already being used in various departments such as transportation, finance, marketing, manufacturing, engineering, and agriculture. As technology continues to advance, machines will become even more efficient and capable of performing tasks within a specified time frame. This shift towards smarter machines will ultimately lead to increased productivity and a greater focus on smart work, rather than hard work.

"In the future, AI will enhance the performance of mankind as a technology. In the present, change is necessary as it presents opportunities to learn and adapt to innovative thinking." Artificial intelligence will be capable of making decisions, performing tasks, managing time, executing instructions flawlessly, ensuring financial security, and making sound financial decisions.

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