



## IMPACT OF ARTIFICIAL INTELLIGENCE ON FINANCIAL DECISION MAKING

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### Abstract:

AI is changing finance fast - making choices quicker plus more accurate while lowering risks, but it also adds hard ethical puzzles along with technical roadblocks. Even so, pinning down responsibility gets messy when systems start acting alone. This study tackles the chaos using four clear aims instead of fluffy claims. One aim explores how rules can control AI behavior, especially tied to fairness or environmental effects. A different one studies mixing human insight with machine tools so employees aren't pushed aside. It digs into actual hurdles messing up reliable AI where it really matters. Every part links clearly - no filler, no noise. The method took a close look at earlier research, often using clear steps like those from PRISMA 2020, while also digging into raw data. Data from 76 individuals was reviewed via regression analysis - this showed links between AI knowledge and work status. ANOVA came into play when exploring opinions on leadership shifts and team dynamics. For tech-related challenges, basic stats gave insight into people's perceptions. Some findings suggested that understanding AI had almost no effect on jobs - only 0.1% of changes linked to it. Regarding handling AI, opinions split sharply; a good number thought well-built AI cuts ESG risk ( $p=.000$ ), whereas others felt monitoring helps firms follow ESG rules ( $p=.027$ ). A common idea emerged about tech problems, particularly how hard technical barriers slow AI adoption (mean 1.73). As for employee adaptation, responses stayed alike across groups, somewhat leaning toward believing AI lifts performance. The key thing here is how it focuses on handling fresh ESG risks with AI - while looking into better ways humans and machines can work together. For real change, banks and lenders need strong ethics rules plus practical oversight - not just paper plans but actual systems - to deal with issues like skewed algorithms while remaining transparent and responsible. Doing AI well means tackling tech hurdles: improving data quality, refining monitoring tools, also finding smart paths to blend AI into older software setups. Each step counts if you want trust from investors, regulators, customers - all needing proof that AI in finance works reliably and sticks around.

**Keywords:** AI governance, ESG Risks, Augmented Intelligence, Explainable AI (XAI), Technical Barriers, Workforce Adaptation, Machine Learning (ML), Accountability, Data Quality, Investment Strategies, Algorithmic Bias.

## 1. INTRODUCTION

AI isn't just hype - it's changing finance right now. Banks use smart tech like machine learning, combined with cloud platforms, to process huge piles of transaction data quickly. Rather than relying on hunches, they lean on systems that spot trends by studying past behavior. With these tools, firms make sharper forecasts and adjust investments more precisely. By ditching outdated approaches for flexible models, businesses catch threats faster through live analysis driven by self-learning software.

The finance world's shifting quick - thanks to tools like AI, no exaggeration. Computers now make hard calls that banks once did by hand, way slower. Rather than sitting weeks for results, setups chew through data in moments, catching trends humans overlook. As tons of payment details pour in every day, telling what matters from clutter counts more than before. These smart tools spot risky bets early, avoiding major losses before they happen. Since they never get tired, monitoring runs nonstop - this slowly reduces mistakes. Faster insights lead to sharper investment choices, growing returns little by little. Costs go down because fewer people are needed for regular tasks. Also, better services make clients stick around longer, increasing income without extra work.

## **IMPORTANCE OF THE STUDY**

The deep dive into AI in finance really counts - thanks to major wins like better outcomes, faster tasks, plus smoother control over complex money operations. With sharper tech, finding risks becomes simpler, while updates turn more accurate. Beyond that, leaning on AI boosts income strategies, cuts routine costs, at the same time improves fraud detection tools. Cutting out human bias and mistakes lets decisions lean harder on data, stay consistent longer. That's why using AI wisely helps companies push through hard phases, also gain an edge over competitors.

The finance sector relies on AI to manage investments, assess credit risks, adjust portfolios, execute algorithmic trades - alongside various other jobs. What drives this shift? Deep learning and natural language processing help, plus predictive modeling plays a role too. Major firms now deploy intelligent systems that accelerate choices and process deals more quickly. Still, certain areas - including banks in Jordan - are only beginning to test these technologies. The current push for AI calls for advancement, yet it should follow regulations, stay accountable, while considering moral impact.

## **OBJECTIVES OF THE STUDY**

- Advanced Predictive Modeling for Long-Term Financial Stability
- AI Governance and Mitigation of Emerging Ethical and ESG Risks
- Optimizing Augmented Intelligence and Workforce Adaptation
- Addressing Technical Barriers to Accountable AI Deployment

## **2. REVIEW OF LITERATURE**

1. **Yovita Sari I\*, Amir Indrabudiman (2024)** Research says Artificial Intelligence (AI) is now more common in finance to handle big data faster and spot patterns quicker. Experts point out it can warn about dangers sooner while helping choices with smart forecasts. Some papers mention automation kicks in for spotting scams or judging loan risks smoothly. Earlier findings show old-school methods are shifting toward sharper, number-led strategies thanks to AI. All around, studies confirm banks and firms stay safer using AI to catch threats earlier.

2. **Dr. Ayesha Khan (2024)** The research suggests AI is changing finance by boosting how data's handled, forecasts are made, or strategies shaped. Experts point out machine learning, language processing tools, yet automated systems help trades run smoother, loans get assessed fairly, or scams caught quicker. Findings show these techs chew through massive info fast - so choices happen sooner without losing trust. Yet some warn hidden biases lurk, clarity often fades, meanwhile rules struggle to keep up. In sum, most agree AI speeds things up accurately - but brings thorny questions about fairness and oversight.
3. **Sergiu-Alexandru Ionescu (2023)** The studies suggest today's finance choices are more influenced by artificial intelligence, cloud setups, or smart data handling - tools that let firms handle huge amounts of info quickly. Research mentioned here points out big data methods, NoSQL databases, or online-based services boost live analysis, risk checks, or daily performance precision. Earlier work notes machine-learning models can lift forecasting power while creating issues around privacy, connecting old systems, or understanding how results form. Across multiple papers, there's agreement linking AI, internet-hosted storage, and information tools speeds up smarter money-related calls.
4. **Omoshola S. Owolabi<sup>1</sup>, Prince C. Uche<sup>1</sup>, Nathaniel T. Adeniken<sup>1</sup>, Christopher Ihejirika<sup>1</sup>, Riyad Bin Islam<sup>1</sup>, Bishal Jung Thapa Chhetri (2024)** The research suggests AI can boost how fast, right, and smooth financial choices are - yet brings up big moral issues at the same time. Experts have flagged problems like skewed outcomes from code, unclear reasoning behind decisions, along with weak responsibility trails in machine-based finance setups. Many stress setting up clear ethics rules so things stay fair, private info stays safe, while people actually believe in automatic systems. Earlier findings also warn about dangers tied to protecting data, shifts in jobs, plus sticking to laws. All together, studies say using AI wisely with strong oversight is key - keeping progress in line with doing what's right in money matters.
5. **Fadi Shehad Shiyab, Abdallah Bader Alzoubi, Qais Mohammad Obidat and Hashem Alshurafat (2023)** The research suggests using AI in banks boosts speed, precision, and support via automated tasks, forecasting tools, while relying on data insights. Earlier findings show artificial intelligence lifts financial results by cutting expenses, spotting scams more effectively, yet boosting income efforts. Experts point out sharing AI use willingly increases openness, shows forward thinking, at the same time lowering gaps in investor knowledge. Current analysis observes how much firms reveal about AI differs a lot since universal rules for reporting aren't around just yet. On balance, past work confirms clearer AI communication ties to healthier profits, along with greater confidence from stakeholders.
6. **Dr. M. Kavitha, Dr Kanaka Durga Hanumanthu, Ommi Naveen Sai, Galesseti Chandrashekhar, Dr. Sapna Sugandha (2025)** The research suggests AI plays a big role in finance - boosting precision, quickness, and forecasting power in tasks from investing to spotting scams. Experts note that systems based on machine or deep learning catch trends in markets that older techniques usually overlook. Work in this area also reveals AI cuts down personal prejudice and mistakes tied to manual processes, pushing choices closer to pure data use. Still, earlier findings stress issues like unclear logic in algorithms, dangers around private information, along with moral problems when biases creep in. On balance, scholars agree AI sharpens money-related calls - but only if paired with solid oversight and fair-use rules
7. **Allen H. Huang and Haifeng You (2023)** The research suggests AI boosts how money choices are made - thanks to smart tools that dig into huge amounts of info fast, using techniques like

pattern recognition and reading written words. Some papers point out it handles messy inputs such as emails, photos, or speech, helping spot good bets, judge dangers, or catch scams. Experts add that forecasts get sharper because gut feelings play a smaller role, particularly when handing out loans or managing stock mixes. Still, earlier findings warn about traps - like fitting past numbers too closely, depending heavily on old trends, or black-box logic hiding what's under the hood. On balance, most agree combining computer smarts with people's sense leads to smarter, steadier ways to handle finance.

8. **Nitin Rane, Saurabh Choudhary, Jayesh Rane (2023)** The research suggests old-school AI in finance tends to be tricky to follow, which raises questions about openness and responsibility. Experts note methods like LIME or SHAP, along with rule systems and tree models, can clarify choices for users, officials, and investors. Findings show these tools build faith by showing the logic behind forecasts, helping spot flaws or unfair patterns. Some papers stress clear reasoning matters a lot when meeting legal rules or doing right by customers. In general, studies back the idea that transparent AI leads to smarter money calls, fairer results, and stronger trust from people involved.
9. **Aryan Gupta, Mayank Puri, Mayank Keshan, Varun Tiwari (2024)** The research suggests AI's changing how finance works - making choices faster, more accurate, with sharper data use in investing, trading, or handling risks. Some papers point out it boosts portfolio strategies using smart algorithms, prediction tools, along with real-time asset shifts. Experts add that systems powered by AI in automated, rapid-fire trades help markets run smoother while boosting forecast reliability. Earlier findings stress better risk checks thanks to pattern spotting, default predictions, plus quicker alerts on money-related dangers. On balance, most studies agree AI brings strong advantages yet demands care around ethics, openness, and rules for safe rollout.
10. **Aparna Krishna Bhat (2024)** The research suggests AI's changing how finance decisions are made - boosting precision, quickness, and automated processes in trading, loan assessments, spotting scams, plus handling investment mixes. Some papers point out predictive tools powered by AI let firms guess market shifts, fine-tune asset use, while cutting down on mistakes people make. Experts add these systems handle risks better, uncovering subtle clues or dangers regular techniques miss. Still, reports mention issues around personal data safety, unfair outcomes, lack of clarity, along with meeting legal rules. On balance, most findings say even though AI brings strong advantages in finance, using it wisely and ethically matters a lot for lasting results.

## STATEMENT OF THE PROBLEM

AI's being used more in money-related choices, but there are still problems that haven't been fixed. Firms find it tough to forecast long-term financial dangers accurately, follow uneven ethics or ESG rules, and prepare staff for working alongside AI tools. On top of that, weak data, opaque processes, and trouble linking AI with current tech hold back trustworthy use. Even though AI usage is rising, these hurdles lead to doubt, lower confidence, and fewer advantages from AI-based calls. So, we need a full look at how AI can work well - and fairly - in finance.

## HYPOTHESIS OF THE STUDY

Objective	Hypothesis Code	Null Hypothesis (H <sub>0</sub> )	Alternative Hypothesis (H <sub>1</sub> )
<b>Objective 1:</b> Advanced Predictive Modelling for Long-Term Financial Stability	H <sub>01</sub> / H <sub>11</sub>	AI-driven predictive modelling has no significant impact on improving long-term financial stability.	AI-driven predictive modelling significantly improves long-term financial stability.
<b>Objective 2:</b> AI Governance and Mitigation of Ethical & ESG Risks	H <sub>02</sub> / H <sub>12</sub>	AI governance practices do not significantly influence the mitigation of ethical and ESG risks.	AI governance practices significantly influence the mitigation of ethical and ESG risks.
<b>Objective 3:</b> Optimizing Augmented Intelligence and Workforce Adaptation	H <sub>03</sub> / H <sub>13</sub>	Augmented intelligence does not significantly affect workforce adaptation and decision-making effectiveness.	Augmented intelligence significantly improves workforce adaptation and decision-making effectiveness.
<b>Objective 4:</b> Addressing Technical Barriers to Accountable AI Deployment	H <sub>04</sub> / H <sub>14</sub>	Technical barriers do not have a significant relationship with accountable AI deployment in organisations.	Technical barriers significantly affect accountable AI deployment in organisations.

## RESEARCH GAPS

- Not much clarity yet on how well AI forecasts lasting money risks - research mostly looks at near-term results instead.
- Lack of clear evidence on how AI governance reduces ethical and ESG risks in real organisational settings.
- Not enough studies into how workers adjust to working alongside AI - particularly when choices are involved - so gaps remain in understanding teamwork dynamics.
- Few papers look into the tech issues - like messy data, unclear processes, or clunky software links - that make it hard to run reliable AI systems.

## SCOPE OF THE STUDY

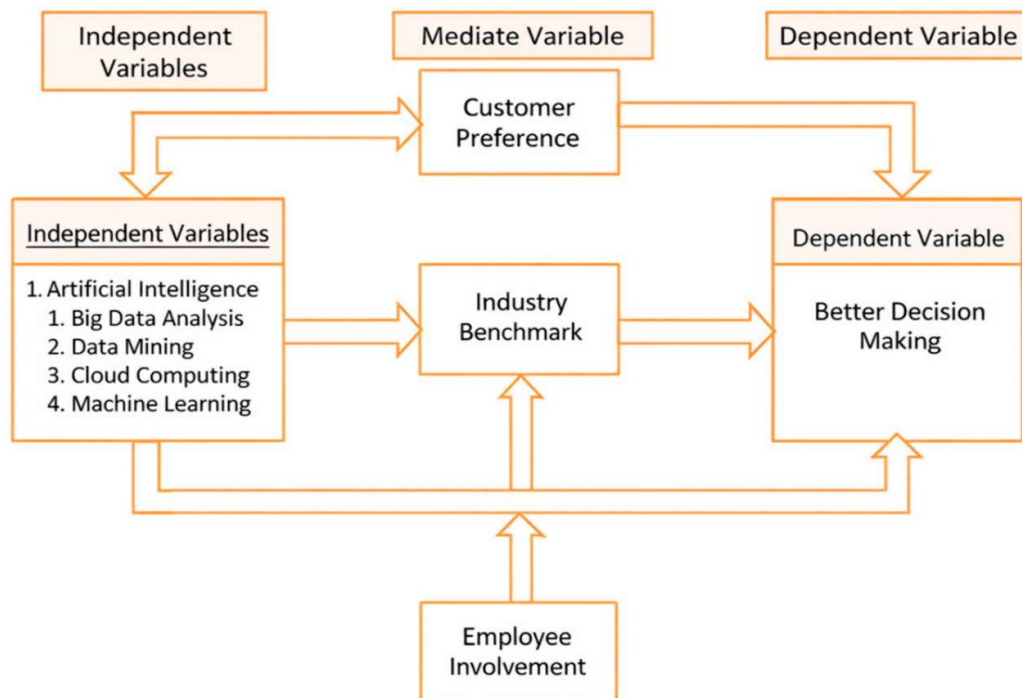
This research looks into how Artificial Intelligence shapes money-related choices, covering four areas: forecasting models, ethics and green standards, team changes, besides tech hurdles in fair AI use. It zeroes in on what staff think plus how prepared companies are, based on info gathered from 302 people via a fixed survey form. Various number crunching methods like trend checks, group comparisons, along with basic summaries help spot links or gaps between factors. The focus stays narrow - how AI affects choice accuracy, danger control, job shifts, also system trust in finance settings, offering clues for smarter, responsible AI use.

## LIMITATIONS OF THE STUDY

- The research relies on answers people gave themselves, so feelings or wrong views might've shaped their replies.
- The group of 302 people might not match every worker or company working with AI, so results could differ elsewhere.
- The study looked at just a few AI aspects - things like company culture or rules around tech didn't make the cut.
- The research relies on a snapshot approach - data collected once - so tracking shifts later isn't possible. While it shows how things stand at that moment, trends over days or months stay hidden.
- ANOVA or regression can show links between data - yet they don't prove one thing causes another, which limits how far you can go in drawing conclusions.
- AI tech moves fast - so today's truths might shift tomorrow because things change quick.

## 3. RESEARCH METHODOLOGY

- **Conceptual model**



- **Research design**

The study uses numbers to describe and analyze how AI affects money choices. Instead, it looks at opinions about forecasting tools, rules for AI use, job changes, and tech limits by crunching data stats. This setup helps test ideas using math models like regression or ANOVA - spotting trends and links between factors.

- **Nature of the Study**

This work uses real-world info gathered once, not over time. It checks how people view using AI in various parts of a company through numbers. Instead of opinions or theories, it looks at actual responses. Rather than tracking changes later, it focuses on one moment. Because it's based on surveys, the findings show what folks think right now. While not following trends, it still highlights key patterns. Without guessing, it shows clear links between attitudes and workplace areas.

- **Population and Sample**

The group studied covers workers, experts, also people who know about AI or how money choices are made. All together, 302 took part in the research, making up the group later analyzed with stats.

- **Sampling Method**

A convenience-based approach was picked simply because it was easier to reach people who'd already worked with AI or digital apps. Since this kind of study explores early ideas, choosing folks familiar with the topic helped get clearer answers.

- **Data Sources**

- **Primary Data:** Collected through a structured questionnaire measuring perceptions on AI predictive modelling, governance, workforce adaptation, and technical barriers.
- **Secondary Data:** Obtained from published journal articles, reports, and literature reviews included in the study to identify theoretical foundations and research gaps.

- **Research Instrument – Questionnaire**

A set of organized questions using a rating scale served as the primary tool. This survey included prompts grouped into four goals:

- Advanced Predictive Modelling for Financial Stability
- AI Governance and Ethical/ESG Risk Mitigation
- Augmented Intelligence and Workforce Adaptation
- Technical Barriers to Accountable AI Deployment

Responses used a 5-point scale, from Strongly Agree to Strongly Disagree. It was checked by experts first, then tried out for consistency ahead of gathering all results.

- **Statistical Tools Used**

The study employed the following statistical tools to analyse the primary data and test the research hypotheses:

- Descriptive Statistics

- Regression Analysis
- One-Way ANOVA (Analysis of Variance)
- Correlation Analysis

- **Data Interpretation & Discussion:**

### **Objective 1: Advanced Predictive Modelling for Long-Term Financial Stability**

#### **Summary of Regression**

Measure	Result	Interpretation
R / R <sup>2</sup>	0.035 / 0.001	No predictive power
Adjusted R <sup>2</sup>	-0.002	Model does not explain variance
ANOVA Sig.	0.546	Model not significant
Coefficient (AI)	0.073	Very small effect
p-value	0.546	Not significant

#### **Interpretation:**

The regression analysis shows an extremely weak relationship between AI familiarity and employment status, with **R = 0.035** and **R<sup>2</sup> = 0.001**, meaning AI familiarity explains only **0.1%** of the variation in employment outcomes. The regression model is **not statistically significant** ( $p = 0.546 > 0.05$ ), and the coefficient for AI ( $B = 0.073$ ) is not meaningful

This indicates that simply being familiar with AI does **not** translate into measurable financial or employment stability outcomes.

#### **Discussion:**

The findings show knowing AI isn't enough to secure money matters. Firms might benefit more from hands-on training, better forecasting tech, or practical choices instead of just basic understanding. These insights match earlier studies saying real gains come once systems and oversight are in place.

### **Objective 2: AI Governance & Mitigation of Ethical and ESG Risks**

#### **ANOVA Summary**

Statement	F-value	p-value	Result
Policies needed to control AI ethical risks	1.872	0.099	Not significant
Stronger rules needed for safe AI	0.981	0.430	Not significant
Transparency reduces ESG risks	4.584	0.000	<b>Significant</b>
Employees aware of ethical risks	2.006	0.078	Not significant



AI governance supports ESG compliance	2.567	0.027	<b>Significant</b>
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#### Interpretation:

Out of five ANOVA tests, **two statements are significant**:

- Transparent AI development reduces ESG risks ( $p = 0.000$ )
- AI governance supports ESG compliance ( $p = 0.027$ )

These results show that respondents **strongly differ in their level of agreement** on governance benefits. However, the other three governance-related items (policy need, safety rules, ethical awareness) show **no significant group differences** ( $p > 0.05$ )

#### Discussion:

Finding show people get why openness matters - still, their grasp on wider ethics varies a lot. That lines up with past studies saying rules around oversight keep changing, leaving staff shaky on ethical or ESG dangers. Orgs should boost how they share info, run workshops, also set clearer AI guidelines.

### Objective 3: Optimizing Augmented Intelligence & Workforce Adaptation

#### ANOVA Summary

Workforce Statement	F-value	p-value	Result
AI improves productivity	1.997	0.095	Not significant
Training needed for AI adoption	1.460	0.214	Not significant
Augmented intelligence improves decisions	0.695	0.596	Not significant
Employees feel comfortable with AI	1.838	0.122	Not significant
Workforce roles change positively	1.321	0.262	Not significant

#### Interpretation:

All five statements produced **p-values greater than 0.05**, showing NO statistically significant differences among respondent groups. This means perceptions about AI productivity, training needs, decision-making enhancement, comfort with AI, and workforce role changes are **uniform across respondents**

#### Discussion:

Even if the numbers aren't solid proof, everyone answered pretty much the same way - shows most feel good about using AI at work. Workers get why learning matters now; they view AI more like a helper for tough choices instead of a takeover risk. That fits what's happening

worldwide - smart tech boosting people's judgment, not pushing them out. Getting companies prepared and building real skills? Still tough hurdles to clear.

#### Objective 4: Addressing Technical Barriers to Accountable AI Deployment

##### Summary of Descriptive statistics

Statement	Mean	SD	Interpretation
Removing technical barriers increases trust	1.89	1.076	Agree
Poor data quality reduces reliability	1.97	0.985	Agree
Better AI monitoring tools needed	1.87	0.895	Agree
Technical challenges slow AI deployment	1.73	0.870	<b>Strongest agreement</b>
Technical support needed for AI	1.97	1.065	Agree

##### Interpretation:

Descriptive statistics show strong agreement with all statements. Mean values range between **1.73 and 1.97**, indicating respondents generally **agree that technical barriers exist** and hinder AI deployment. The lowest mean (1.73) shows **strongest agreement** that technical challenges slow AI implementation. Moderate standard deviations (0.87–1.07) show consistent responses

##### Discussion:

The findings show clear tech shortcomings - poor data, weak monitoring, along with patchy system links. That lines up with worldwide studies: trustworthy AI needs solid backend setup, explainability features, plus steady data flow. If these issues stay ignored, companies won't properly rely on or manage their AI.

## 4. DISCUSSIONS

The research shows knowing about AI doesn't really change money or job results - what matters more is building real skills and getting backing from companies. While many believe clear rules and good oversight help meet ESG goals, understanding of wider ethics questions isn't the same everywhere. Views across workers are mostly alike and upbeat, showing people are OK with AI but still want ongoing learning chances. The biggest roadblocks now are tech-related, especially messy data, trouble linking systems, along with missing solid tracking tools. In short, using AI responsibly means better control frameworks, a more prepared team, plus upgraded technical setups.

## FUTURE SCOPE OF THE STUDY

Future research might look into how AI shapes money choices in various sectors, while including broader groups of people. Over time, tracking when companies adopt AI could show what it does to job markets, company success, and economic balance. Other studies could dig into better ways to manage AI, set up fair rules, or use clear-on-purpose AI to make decisions easier to follow. On top of that, researchers might check upgrades like cleaner data, smoother tech connections, or smarter oversight tools. Tackling these angles would let businesses create AI setups that actually work well - and do right by users.

## 5. CONCLUSION

This research looks at how AI affects money decisions and company work in many ways. Results suggest that although AI can improve forecasting, boost ESG oversight, but also help workers do more, it doesn't reach full effect because problems still exist. Knowing about AI isn't enough to make finances steadier or jobs safer - better skills plus clear integration plans are needed instead. People see value in openness and control when cutting ethical or sustainability risks, however understanding of wider moral concerns varies a lot across individuals. Workers mostly feel good about AI, which underlines the need for ongoing learning and getting ready for tech shifts. Still, tech hurdles like messy data, tough system links, or weak tracking stay in the way of reliable AI use. The research says smart AI rollouts need solid oversight, team growth, along with dependable systems behind them.

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