

National College of Ireland

Project Submission Sheet

Student Name: Dhurka Munnainathan
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Student ID: X22114149
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Lecturer: Robert Macdonald
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Abstract

With emphasis on how artificial intelligence (AI) may improve productivity, accuracy, and fraud detection, this study explores how AI is revolutionizing financial auditing. AI technologies like machine learning, natural language processing, and robotic process automation are gradually replacing or supplementing traditional auditing techniques, which are frequently constrained by human procedures and selective sampling. The study uses a mixed-methods approach to evaluate AI's present and future involvement in auditing processes, combining survey data from 100 financial auditors with insights from expert interviews. The results show that there is general confidence over AI's potential to greatly enhance audit quality by automating tedious processes, detecting anomalies, and providing real-time analysis. The study does, however, also point out significant adoption difficulties, such as expensive implementation costs, unclear regulations, and moral dilemmas like algorithmic prejudice. The findings highlight the need for upgrading regulatory requirements, creating strong governance structures, and upskilling auditors. According to the study's findings, artificial intelligence (AI) has the potential to completely transform financial auditing, but its effective implementation will require careful coordination of human knowledge, policy, and technology.

1. Introduction

1.1 Concept of AI in financial auditing

Artificial intelligence (AI) is transforming the world of financial auditing by providing enhanced tools for automating mundane activities and improving data analysis accuracy. Traditional audit procedures, which depend mainly on manual inspections and rule-based systems, are time-consuming and subject to human error. In contrast, AI technologies like machine learning, natural language processing, and robotic process automation help auditors effectively handle and comprehend huge datasets. These technologies aid in discovering trends, detecting abnormalities, and reporting possible dangers that might otherwise go undiscovered using conventional methods.

The use of AI in auditing not only improves operational efficiency, but it also opens the door to more dynamic techniques such as real-time auditing and predictive analysis. This change has the potential to greatly increase audit quality and fraud detection capabilities. However, it raises additional difficulties, such as data privacy, algorithmic transparency, and ethical accountability. As the auditing profession advances, knowing the advantages and dangers of AI integration is critical to ensuring reliable and successful financial reporting.

1.2 Background on traditional auditing challenges

Traditional financial auditing has traditionally used manual methods, standardized checklists, and rule-based software to assess an organization's financial health and regulatory compliance. These audits often include sampling a fraction of transactions, evaluating paperwork, and ensuring accounting standards are followed. While effective in many circumstances, these procedures are frequently time-consuming, labor-intensive, and limited in scope. Auditors may struggle to evaluate large amounts of financial data under tight timelines, raising the possibility of missing mistakes, discrepancies, or fraudulent behaviour.

Furthermore, as firms get more sophisticated and transaction volumes increase, traditional auditing approaches become less effective. They are frequently reactive rather than proactive, relying on previous data instead of real-time insights. In a quickly changing financial sector

with regular regulatory changes, auditors must traverse complex compliance requirements, frequently without the necessary technology tools. These problems underscore the need for more complex, scalable solutions, paving the door for technology like as artificial intelligence to complement and improve the auditing process.

1.3 Rationale for AI Integration in Auditing

The growing complexity of financial data increased legal expectations, and the need for higher accuracy, efficiency, and fraud detection are all driving the incorporation of Artificial Intelligence (AI) in auditing. Traditional auditing procedures, which rely mainly on human reviews and selective sampling, frequently fall short of meeting the volume and diversity of current financial activities. AI provides the capacity to handle large datasets in real time, allowing for thorough analysis that exceeds the capabilities of human auditors. This allows for a transition from reactive, periodic audits to more proactive and continuous monitoring, which considerably improves the timeliness and relevancy of audit insights.

Furthermore, AI can detect patterns and abnormalities with precision that is impossible to match manually. This makes it a crucial tool for detecting possible fraud or financial anomalies early in the process. Machine learning and natural language processing technologies enable the automation of repetitive processes like as data input, document inspection, and risk categorization, allowing auditors to focus on higher-level judgement and strategic decision-making. In this context, AI integration is more than simply a technology update; it is a critical evolutionary step towards meeting the needs of a more data-driven, transparent, and responsible financial sector.

2. Literature Review

Ivakhnenkov (2023) investigates the practical uses of artificial intelligence in auditing, focussing on automating mundane operations and improving fraud detection. The report emphasises how AI technologies like machine learning, natural language processing (NLP), and robotic process automation (RPA) enable auditors to rapidly evaluate enormous datasets and find irregularities in financial transactions. Ivakhnenkov further mentions that large companies such as PwC and EY have already integrated these tools to improve audit procedures, demonstrating the enormous influence AI is having on audit operations. However, the study acknowledges AI's limitations, such as the difficulty of comprehending AI-driven models and the requirement for human supervision to assure data quality and compliance (Ivakhnenkov, 2023).

Xiao (2022) focuses on the integration of AI strategies into enterprise financial audits. According to the report, AI technologies such as predictive analytics and anomaly detection considerably improve risk assessments while lowering labour costs. Xiao discusses how automation increases decision-making efficiency while also raising questions about auditor accountability and data privacy. A crucial point in the report is the need for auditors to gain new skill sets as their position shifts from manual auditing to managing AI-powered operations. Ethical problems and information security threats are also discussed, emphasizing the significance of developing strong legal frameworks for AI usage in audits (Xiao, 2022).

Kindzeka (2023) investigates the larger implications of AI in accounting, auditing, and financial reporting. The study describes how AI technologies enable data entry automation, real-time anomaly detection, and strategic decision assistance. It also investigates the scalability and cost-effectiveness of AI systems that enhance compliance and financial accuracy. Notably, Kindzeka advocates using AI with blockchain technology to improve transparency and security. Nonetheless, the report highlights fast AI development and a lack of standardization as key impediments to widespread business adoption (Kindzeka, 2023).

Gao and Han (2021) investigate how AI affects the basic goals of financial audits, such as increasing the reliability and fairness of financial data. Their study emphasizes how AI broadens audit evidence sources and improves judgement by combining multidimensional data such as industry trends and external economic indicators. They also introduced the

concept of "expert opinion" as a new, AI-enabled type of audit evidence that allows for additional detail in audit reports. While conventional audits relied on sampling and manual judgement, AI allows for extensive data analysis, narrowing the audit expectation gap and boosting the objectivity of conclusions (Gao & Han, 2021).

Hasan (2025) conducts a thorough literature assessment of AI's function in accounting and auditing, tracing its development from early computational models to modern deep learning systems. The assessment highlights numerous significant technologies, including neural networks, expert systems, and continuous auditing tools. Hasan illustrates how these technologies may assist with risk assessment, financial forecasting, and real-time auditing. Benefits include increased efficiency, less human error, and cost savings. However, the study raises significant issues about data privacy, algorithmic bias, and high implementation costs, emphasizing the importance of legislative revisions and ethical principles (Hasan, 2025).

Zhang et al. (2021) and Meng et al. (2019) look at the application of deep learning and data mining in financial auditing. These tools dramatically increase fraud detection and audit accuracy by detecting complicated patterns and abnormalities in massive datasets. According to the findings, deep learning models can adapt to changing legislation and corporate situations, hence facilitating continual auditing methods. However, they warn against the "black box" aspect of deep learning algorithms, which might make audit judgements difficult to comprehend. Data privacy, security, and the high cost of implementation are also identified as persistent difficulties (Zhang et al., 2021; Meng et al., 2019).

3. Research question

- How does artificial intelligence enhance the efficiency and accuracy of financial audits?
- What are the main challenges and limitations in adopting AI technologies in auditing?
- How can AI address fraud detection and compliance issues?

4. Hypotheses

- H01: AI significantly improves the accuracy of financial audits compared to traditional methods.
- H02: AI adoption in auditing faces significant resistance due to ethical, regulatory, and cost-related challenges.
- H03: AI is more effective in detecting fraudulent activities than conventional approaches.

5. Aims and Objectives of the Study

The purpose of this research is to investigate how artificial intelligence (AI) is altering financial auditing by increasing efficiency, accuracy, and fraud detection, as well as highlighting the obstacles and ethical implications connected with its use.

- 1. To identify the key AI technologies currently used in financial auditing.**
- 2. To evaluate the impact of AI on the efficiency and reliability of auditing processes.**
- 3. To analyze real-world case studies that demonstrate successful AI implementation in auditing.**
- 4. To examine the challenges, limitations, and ethical issues linked to the adoption of AI in auditing.**
- 5. To assess how AI enhances fraud detection and compliance in financial audits.**

6. Methodology

6.1 Research Paradigm

This study uses a mixed-methods research paradigm that includes both positivist (quantitative) and interpretivist (qualitative) methodologies. The positive component employs statistical analysis to assess AI's influence on audit efficiency, accuracy, and fraud detection. The interpretivist component investigates auditors' viewpoints and experiences with AI difficulties, ethical concerns, and regulatory consequences in auditing.

6.2 Research Approach

A mixed-method approach is used, combining:

- Conducted quantitative study using structured questionnaires of financial auditors.
- Analyze secondary expert interviews in public media (e.g., YouTube, podcasts, conference presentations) to get professional insights.

6.3 Data Collection Methods

6.3.1 Surveys

A designed questionnaire with Likert-scale items was sent electronically to 100 auditing experts. The poll measured perceived benefits in audit efficiency, fraud detection, and accuracy owing to AI.

- Challenges include legal limits, ethical problems, and meeting financial criteria.
- Future perspectives on the role of AI in auditing.

6.3.2 Secondary Interviews

Rather than conducting fresh interviews, qualitative data was gathered by analyzing expert viewpoints from publicly available sources such as YouTube, podcasts, and industry panels.

These comprised insights from:

- Financial Regulators
- AI developers in audit technology
- Senior audit practitioners

6.3.3 Sampling Strategy and Justification

A purposeful sampling strategy was used to guarantee that participants had relevant expertise with AI in auditing. The sample contained:

- The study involved 100 financial auditors and AI-specialist accountants.
- Publicly available conversations with industry professionals
- This technique guarantees that quantitative and qualitative data are both relevant and high-quality.

6.3.4 Data Analysis Methods

Quantitative Data:

Descriptive statistics (mean, median, mode) and inferential techniques (correlation and regression) were used to analyze Likert-scale responses. Tools like Microsoft Excel support data organization and visualization.

Qualitative Data:

Qualitative data analysis of open-ended surveys and expert interviews revealed reoccurring difficulties related to AI adoption, including compliance, ethics, and legal limits.

7. Sampling Strategy and Justification

A purposive sampling strategy was utilized to choose persons with appropriate financial auditing experience and exposure to AI technology. The poll drew 100 participants, who served as the study's core data sample. The participants included:

- Certified public accountants (CPAs)
- Internal auditors
- Audit managers and partners
- Financial controllers
- Audit data analysts

All participants had at least two years of professional experience and were chosen based on their knowledge of AI-enabled audit technologies such as machine learning applications, robotic process automation (RPA), and audit analytics platforms. The poll was sent electronically via email, LinkedIn, and professional auditing groups to guarantee a diverse yet appropriate response. The sample size of 100 respondents was deemed enough for generating statistically significant insights while maintaining focus on those actively working in the auditing sector. This focused strategy ensured that the acquired data was both relevant and high-quality.

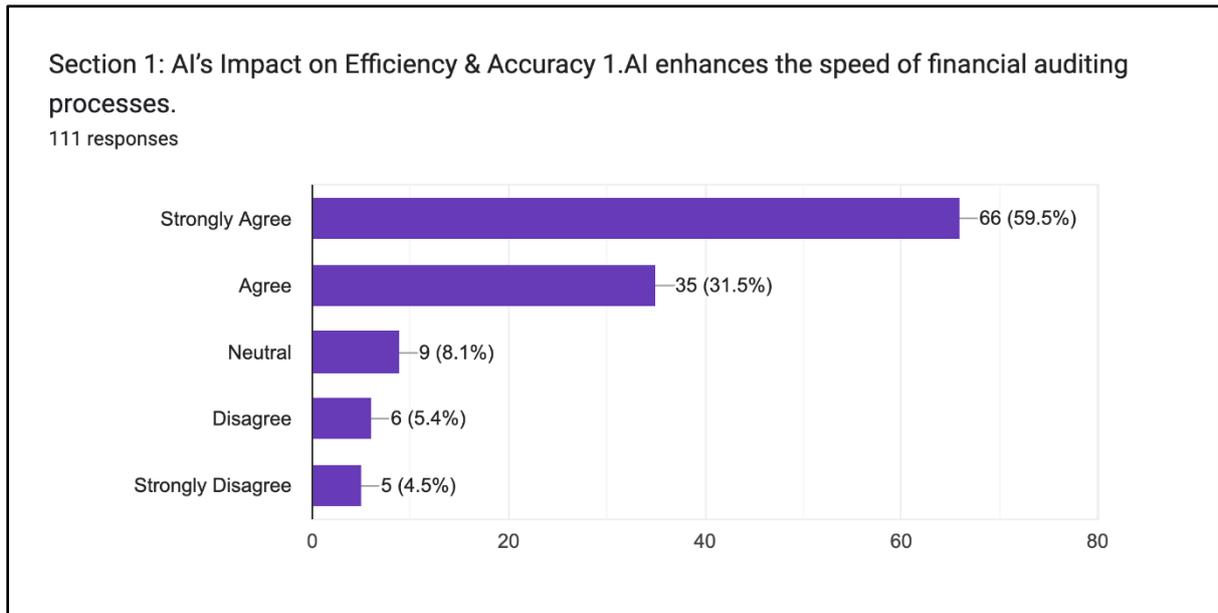


Figure 1: Question 01

1. AI enhances the speed of financial auditing processes

Most respondents (59.5% strongly agree and 31.5% agree) feel that AI considerably improves the pace of financial auditing operations, resulting in a 91% favourable mood. This widespread agreement indicates a high degree of trust in AI's capacity to automate time-consuming operations like data extraction, processing, and reconciliation, which have historically slowed audits. Only a small minority (9.9%) stated neutrality or disagreement, showing limited opposition. This demonstrates that AI's promise of operational efficiency in auditing is generally recognized and perhaps already realized.

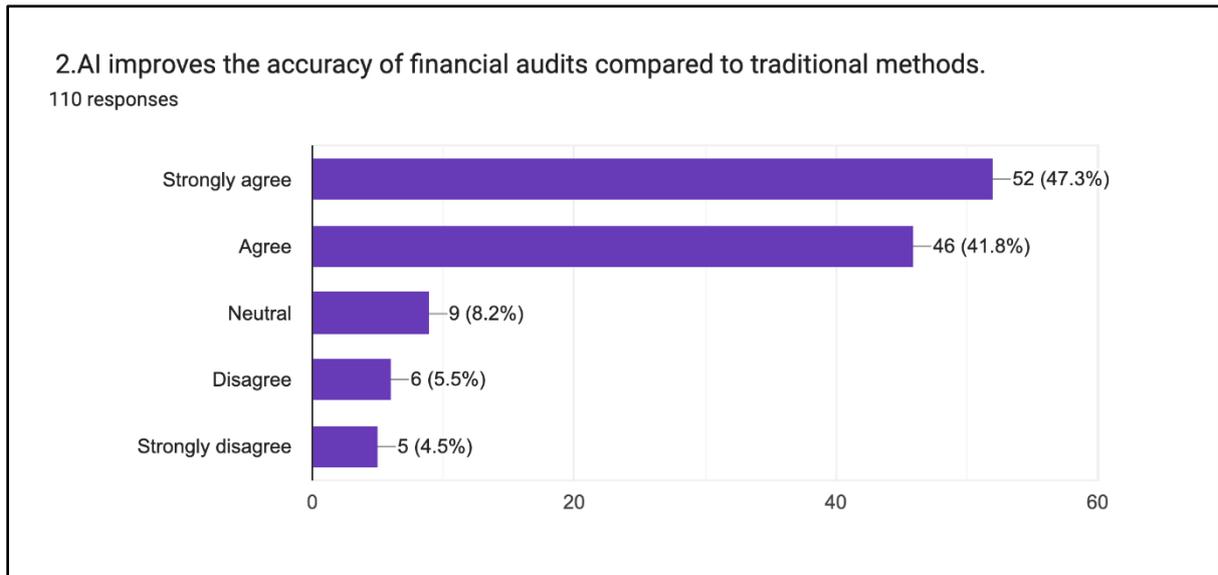


Figure 2: Question 02

2. AI improves the accuracy of financial audits compared to traditional methods

A total of 89.1% of participants (47.3% strongly agree and 41.8% agree) believe that AI helps to improve audit accuracy. This conclusion supports the notion that AI's algorithmic accuracy lowers human mistakes, assures consistent assessments, and improves data-driven decision-making. The low proportion of disagreement (10.9%) indicates that most experts prefer AI's analytical skills over traditional, manual methods. Accuracy is crucial in auditing, and such high trust in AI's function in this field demonstrates its rising relevance as a quality enhancer rather than time savings.

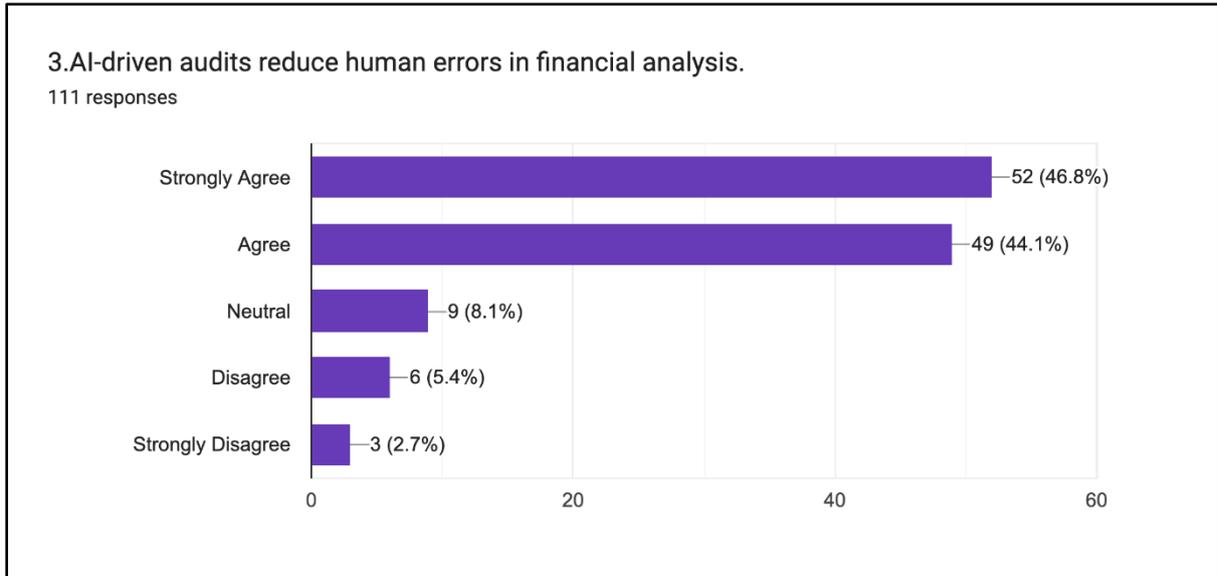


Figure 3: Question 03

3. AI-driven audits reduce human errors in financial analysis

A similarly high majority of respondents—90.9% in total (46.8% strongly agree and 44.1% agree)—believe that artificial intelligence (AI) helps eliminate human error in financial analysis. This lends credence to the idea that AI can execute regular, repeated jobs more reliably, minimizing cognitive overload and fatigue-related errors among auditors. The tiny percentage of dissent (8.1%) might be due to worries about over-reliance on technology or the quality of AI models, but generally, the consensus demonstrates a high belief in AI's corrective capacity when it comes to reducing manual errors in crucial financial operations.

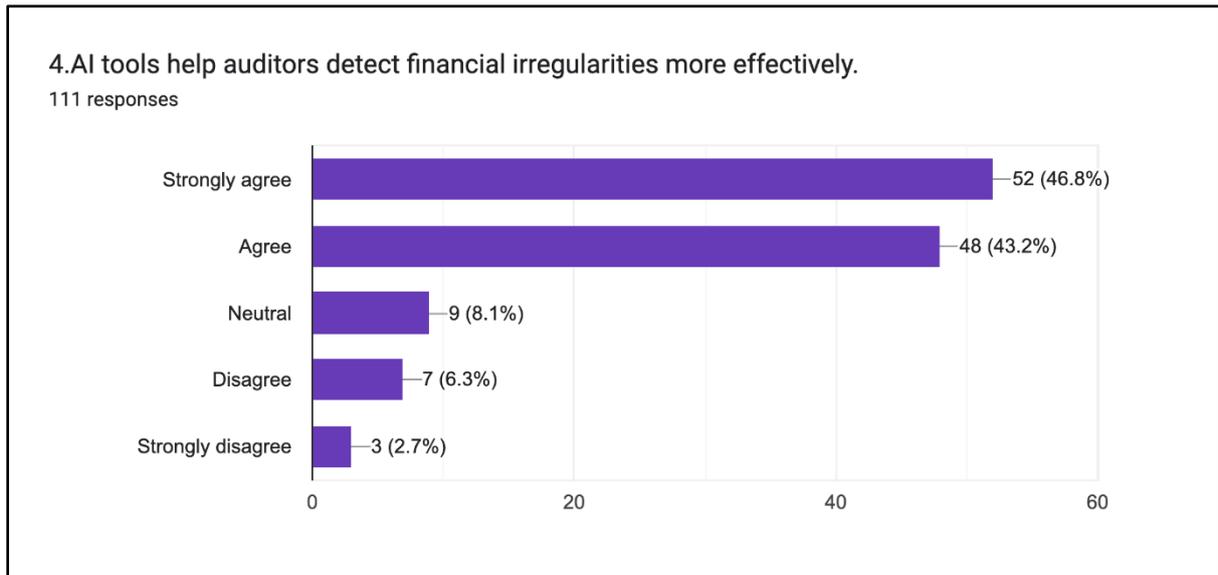


Figure 4: Question 04

4. AI tools help auditors detect financial irregularities more effectively

This graph demonstrates that 90% of respondents (46.8% strongly agree, 43.2% agree) feel AI techniques help the identification of financial irregularities. The capabilities of AI in pattern recognition, anomaly detection, and real-time alerting are likely to contribute to this impression. The results strongly support AI's diagnostic accuracy, implying that it improves auditors' investigation powers by revealing irregularities that conventional analysis may miss. The low resistance (9%) demonstrates that, while some scepticism exists, most professionals see AI as a critical tool for increasing audit oversight.

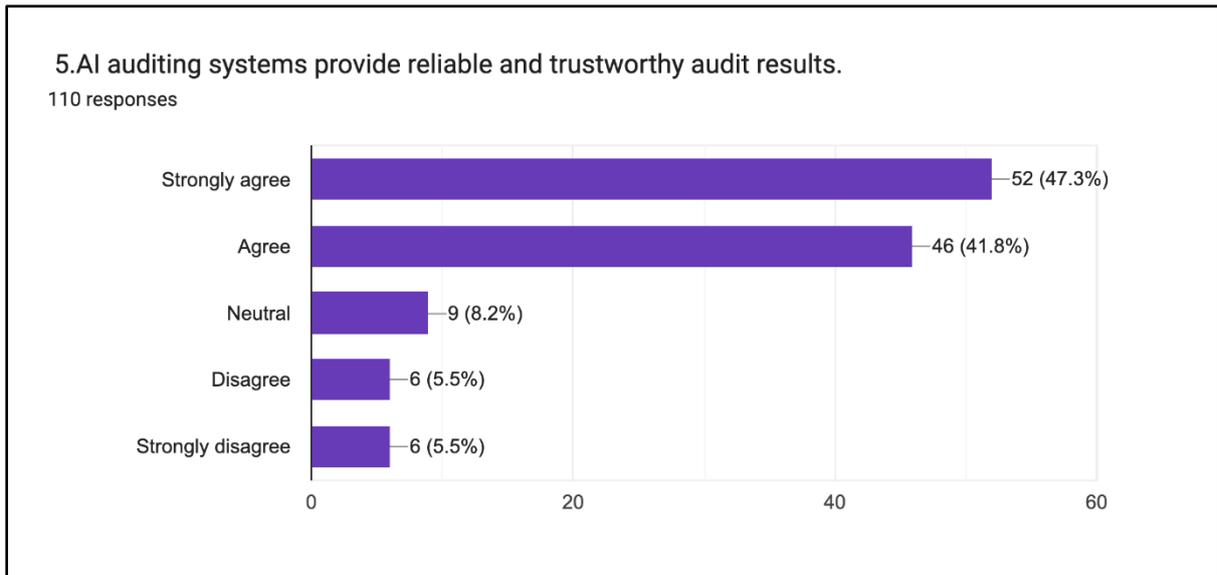


Figure 5: Question 05

5. AI auditing systems provide reliable and trustworthy audit results

89.1% of participants (47.3% strongly and 41.8% somewhat) believe that AI auditing systems generate accurate and trustworthy outcomes. This demonstrates a strong conviction in AI's ability to be not just fast and precise, but also reliable in terms of results. However, the neutrality and disagreement rate (totaling 16.4%) indicate a small concern about the transparency or interpretability of AI systems, sometimes known as the "black box" dilemma. Despite this, the overall confidence in AI's capacity to preserve audit integrity is a good sign for its long-term acceptability in the business.

Section 2: AI's Role in Fraud Detection 6.AI enhances fraud detection capabilities in financial auditing.

111 responses

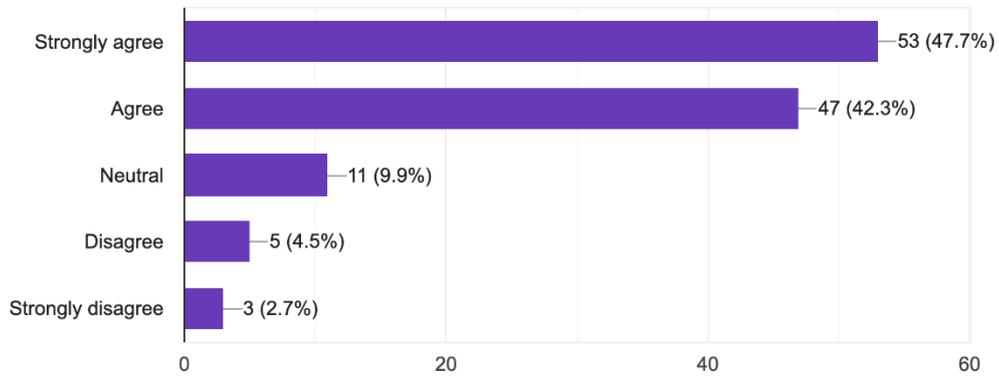


Figure 6: Question 06

6. AI enhances fraud detection capabilities in financial auditing

A total of 90% of respondents (47.7% strongly agree, 42.3% agree) believe AI improves fraud detection, demonstrating a strong conviction in its analytical superiority. Fraud detection frequently entails combing through enormous amounts of data to find suspect actions, which AI excels at using machine learning and behavioural analysis. The modest percentage of indifferent or disagreeing participants (10%) may represent worries about false positives or dependence on outdated data that does not reflect current fraud strategies. Nonetheless, the overwhelming consensus indicates that AI is viewed as a valuable tool in maintaining financial integrity.

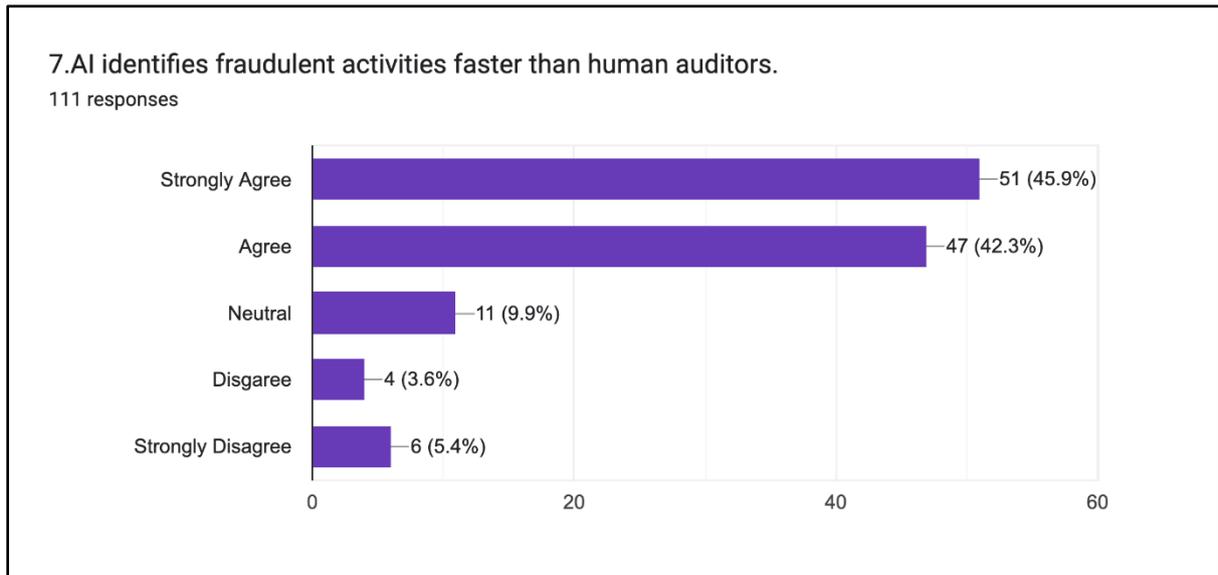


Figure 7: Question 07

7. AI identifies fraudulent activities faster than human auditors

88.2% of respondents believe AI can uncover fraud faster than humans. This lends credence to the notion that AI's real-time processing and capacity to analyze huge amounts of data provide it with a temporal edge. However, a somewhat larger proportion of respondents (9%) disagree or strongly disagree, probably due to reservations about AI's capacity to discern context, purpose, or unusual fraud patterns without human intervention. Still, the general impression indicates that AI is seen as a helpful acceleration tool in fraud detection operations.

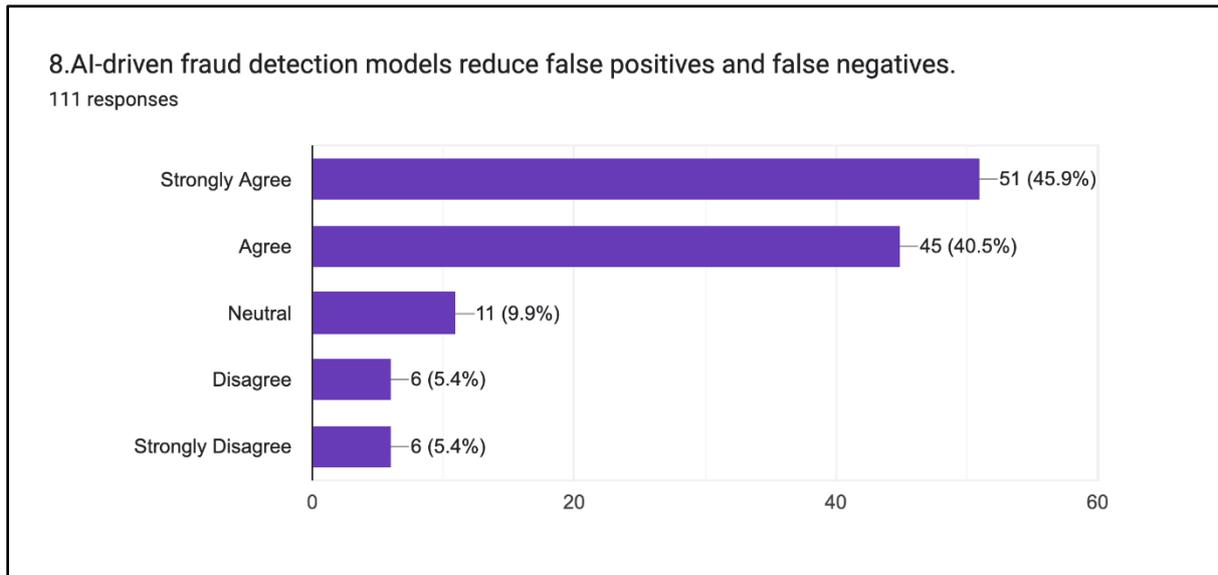


Figure 8: Question 08

8. AI-driven fraud detection models reduce false positives and false negatives

In this study, 86.4% of participants agree (45.9% strongly, 40.5% somewhat) that AI minimizes misclassification mistakes (false positives and false negatives), which are major issues in fraud detection systems. While AI predictive modelling is projected to improve over time, the 13.6% who are undecided or disagree may be expressing legitimate worries about some AI models' existing limitations, such as bias in training data or a lack of flexibility. Nonetheless, this data highlights increased trust in AI's capacity to identify fraud not just faster, but also more correctly.

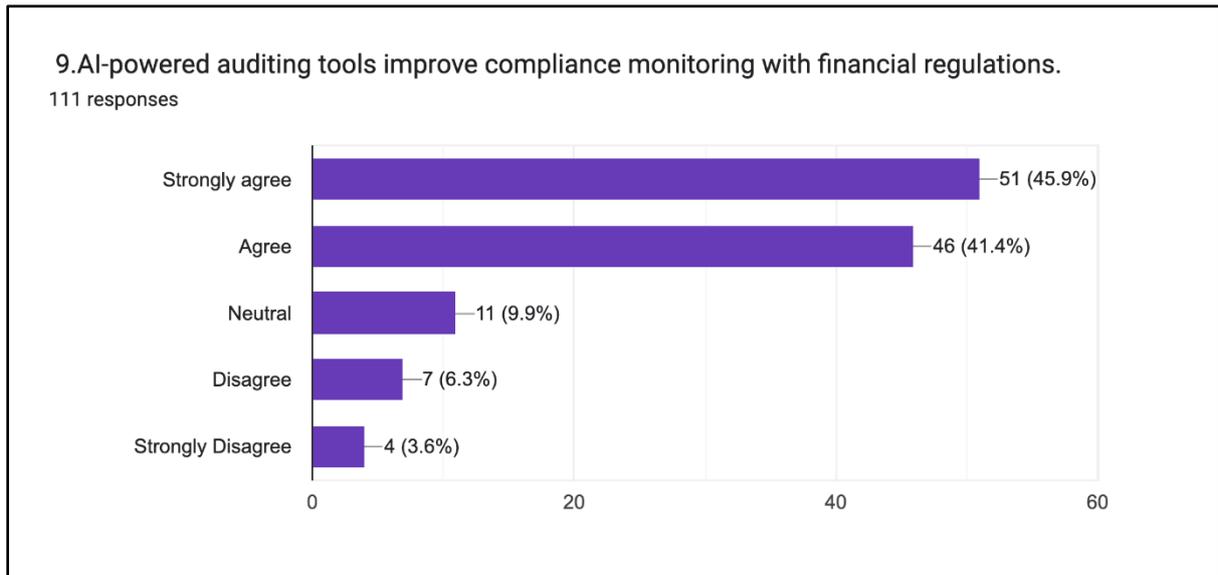


Figure 9: Question 09

9. AI-powered auditing tools improve compliance monitoring with financial regulations

With 87.3% agreement, this graphic demonstrates a high opinion that AI improves compliance monitoring. AI can automatically follow developing legislation and ensure that procedures are in sync, dramatically reducing non-compliance risks. 12.7% of neutral or opposing opinions might be due to ambiguity regarding regulatory adoption of AI technologies or a lack of openness in how AI interprets legal requirements. Despite this, the widespread agreement is that AI is a useful tool for negotiating complicated regulatory contexts.

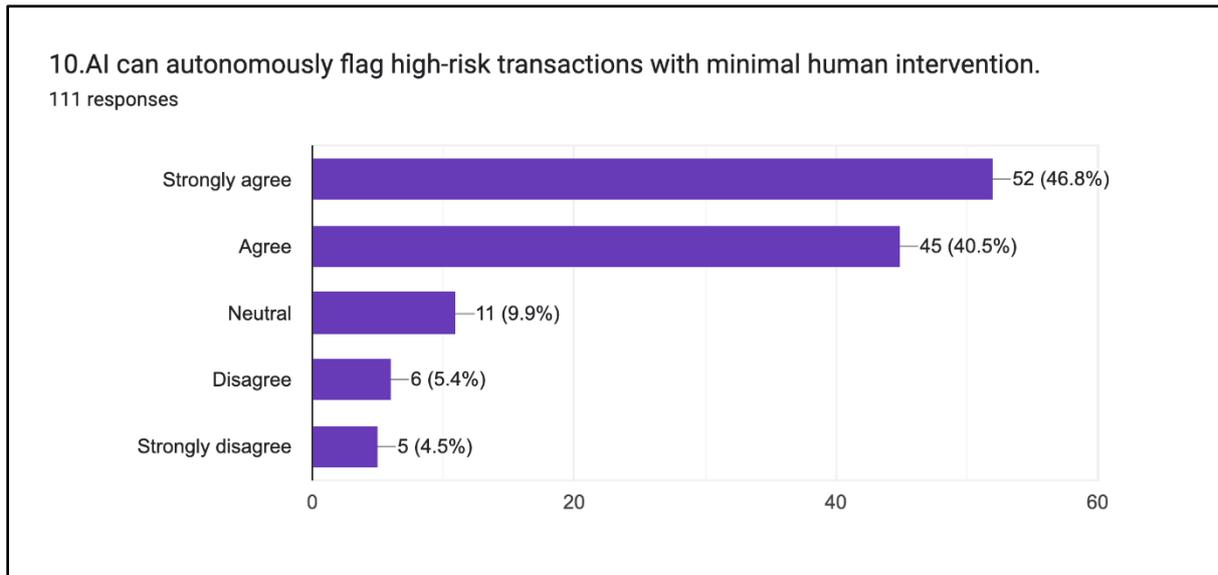


Figure 10: Question 10

10. AI can autonomously flag high-risk transactions with minimal human intervention

Finally, 87.3% of respondents (46.8% strongly agree, 40.5% agree) believe AI can automatically identify high-risk transactions. This demonstrates faith in AI's capacity to make independent decisions, particularly when screening and prioritizing dubious situations for further study. However, a significant 14.5% are neutral or disagree, which may indicate concern about diminishing human control in key choices. This shows that, while autonomy is valued, there is a need to keep a person in the loop for verification and responsibility.

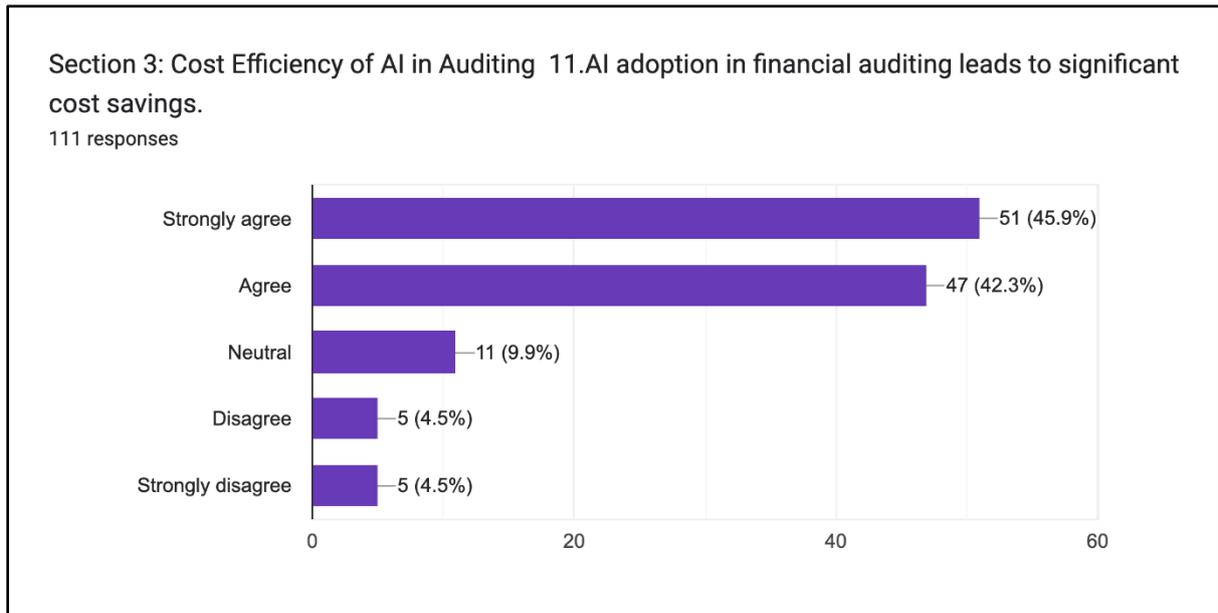


Figure 11: Question 11

11. Adoption of AI in financial auditing leads to significant cost savings

A total of 88.2% of respondents (45.9% strongly agree, 42.3% agree) feel that using AI into financial audits results in considerable cost reductions. This general agreement emphasizes how AI saves money by automating repetitive operations, reducing manual labour, and avoiding costly mistakes. The minority that is neutral (9.9%) or disagrees (9%) may be apprehensive owing to high initial investment expenses or a lack of direct knowledge. Overall, the evidence supports the notion that AI is perceived as a strategic move towards financial efficiency rather than merely a technology update.

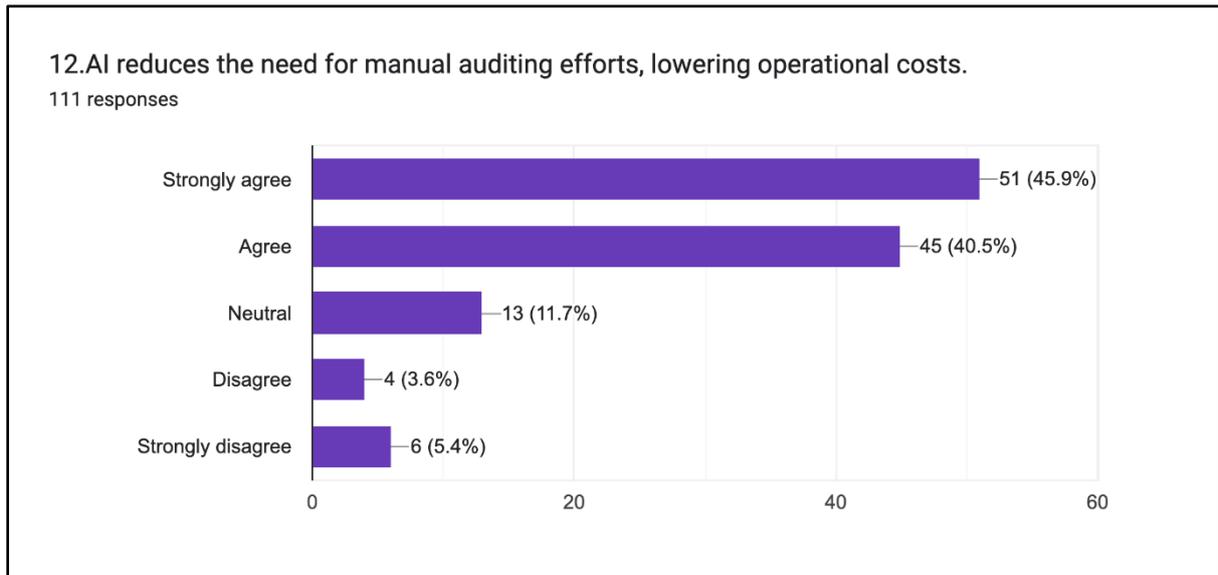


Figure 12: Question 12

12. AI reduces the need for manual auditing efforts, lowering operational costs

The statistics suggest that 86.4% of participants (45.9% strongly agree and 40.5% agree) believe AI decreases manual auditing, which has a direct influence on cost savings. AI's capacity to scan vast databases, reconcile accounts, and generate insights without human interaction is seen as a valuable tool for cutting operating expenses. However, 11.7% remain indifferent, and a tiny number (9%) disagree, probably due to certain organizations still using hybrid models or not completely optimizing AI in their systems. Nonetheless, the findings support AI's usefulness in decreasing labor-intensive auditing procedures.

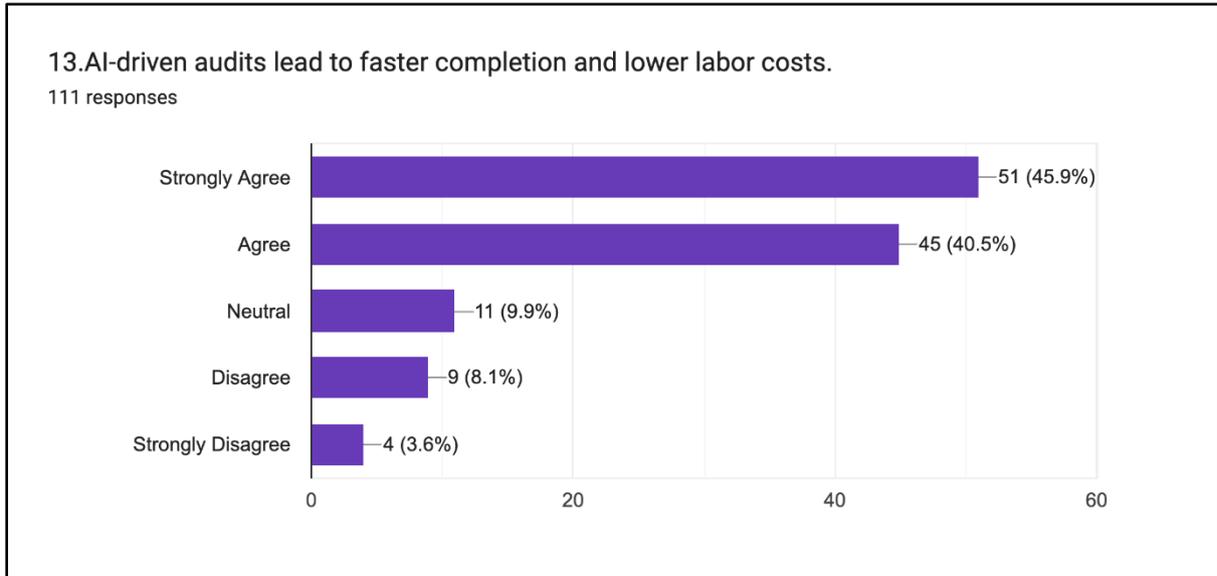


Figure 13: Question 13

13. AI-driven audits lead to faster completion and lower labor costs

A total of 86.4% (45.9% strongly agree, 40.5% agree) feel that AI speeds up audit completion while lowering labour expenses. The speed and scalability of AI technologies enable audits to be done more often and at a reduced cost, improving responsiveness and competitiveness. The remaining 13.6%, who were neutral or disagreed, may have been concerned about implementation delays, integration issues, or potential interruptions to established procedures. However, the majority strongly favors the cost-effectiveness and productivity advantages of AI-powered audits.

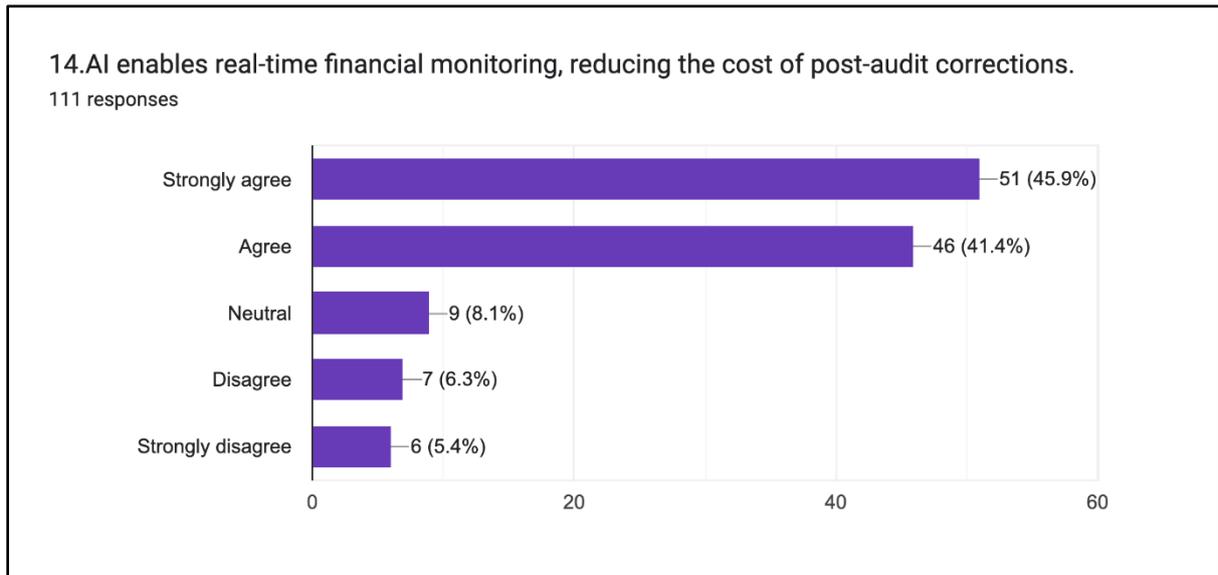


Figure 14: Question 14

14. AI enables real-time financial monitoring, reducing the cost of post-audit corrections

According to this figure, 87.3% (45.9% strongly agree and 41.4% agree) believe AI may reduce the need for costly post-audit modifications by providing real-time financial control. By spotting anomalies as they happen, AI saves errors from piling over time, saving money on corrections, fines, and restatements. The opposing minority group (11.7%) may be sceptical about AI's dependability in continuous monitoring, or the resources needed for such systems. Nonetheless, the evidence demonstrates AI's strategic importance in proactive financial governance.

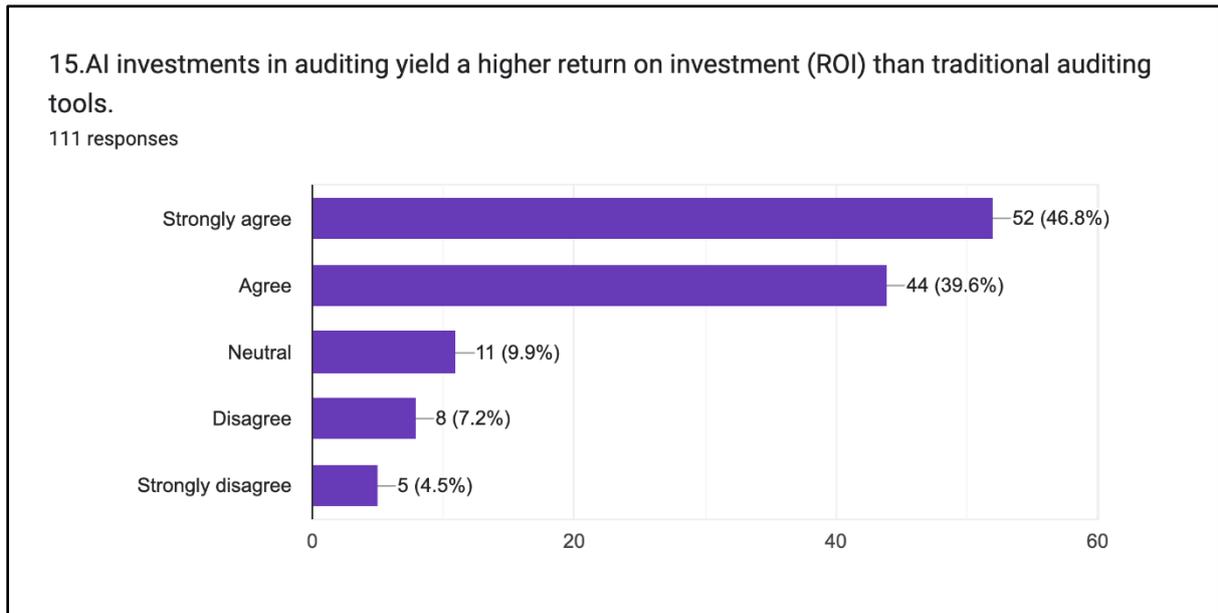


Figure 15: Question 15

15. AI investments in auditing yield a higher return on investment (ROI) than traditional auditing tools

An overwhelming 86.4% (46.8% strongly agree, 39.6% agree) feel AI has a higher ROI than traditional technologies. This demonstrates trust in AI's capacity to boost efficiency, accuracy, fraud detection, and audit quality—all of which lead to measurable financial benefits. Around 13.6% remain sceptical, presumably due to worries about the initial investment or uneven returns from AI deployments. Nonetheless, this sizable majority has generally favorable experience with AI deployment in terms of demonstrable financial outcomes.

Section 4: Challenges in AI Adoption in Auditing 16. The high cost of AI implementation is a major barrier to its adoption in financial auditing.

111 responses

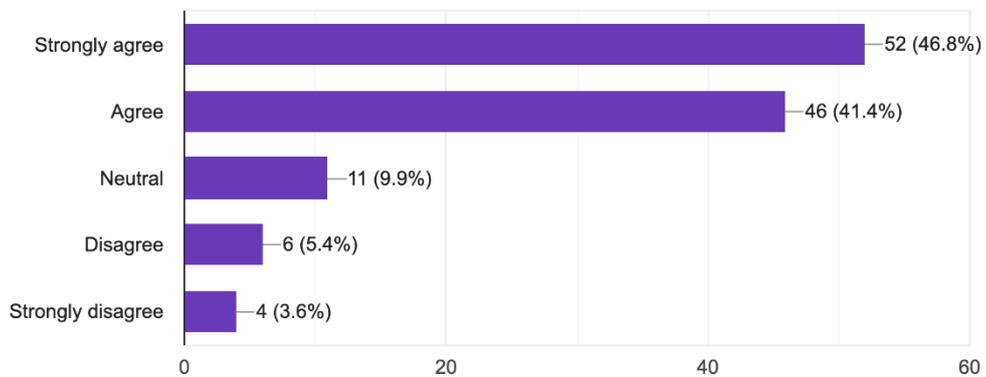


Figure 16: Question 16

16. The high cost of AI implementation is a major barrier to its adoption in financial auditing

Despite overwhelming recognition of AI's cost benefits, 88.2% (46.8% strongly agree and 41.4% agree) concede that high initial implementation costs are still a significant hurdle. This seeming paradox highlights a major adoption challenge: while AI results in long-term benefits, the initial investment—including software, equipment, and training—can dissuade smaller enterprises or risk-averse organizations. Only 9% disagreed or stayed indifferent, indicating that this obstacle is generally recognized across the board.

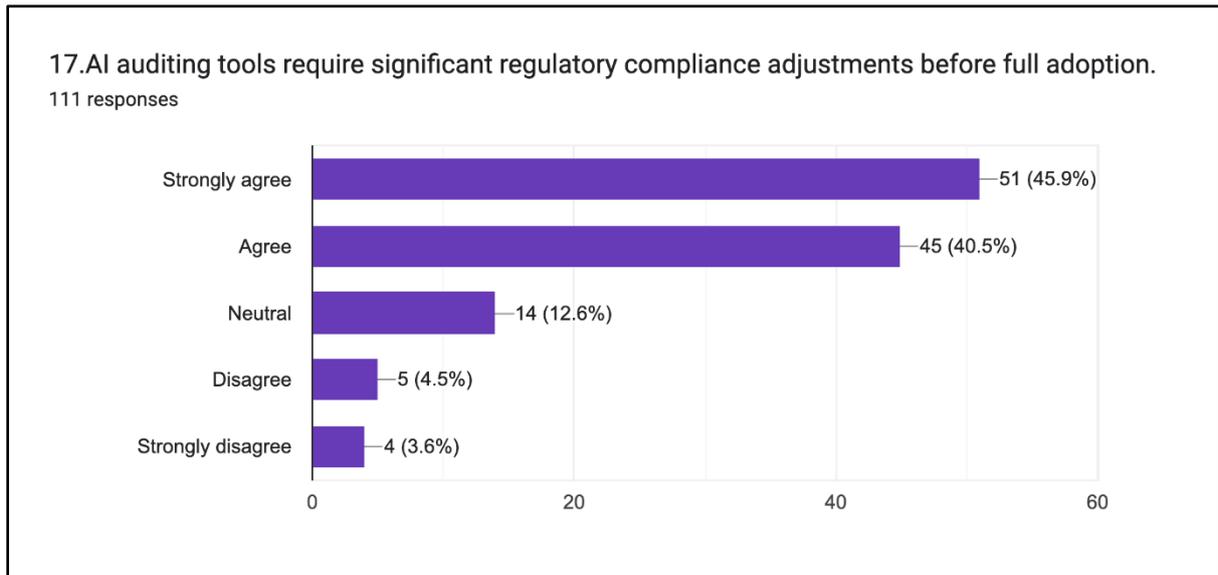


Figure 17: Question 17

17. AI auditing tools require significant regulatory compliance adjustments before full adoption

Most respondents (86.4%) believe that regulatory constraints hamper AI implementation in auditing. Many AI systems now fail to satisfy the criteria of complying with existing accounting standards and being transparent and explainable to authorities. The 12.6% neutral replies most likely indicate ambiguity or changing regulatory settings. This conclusion emphasizes the need for updated regulations, auditing procedures, and standard setting to ensure safe and legal AI implementation.

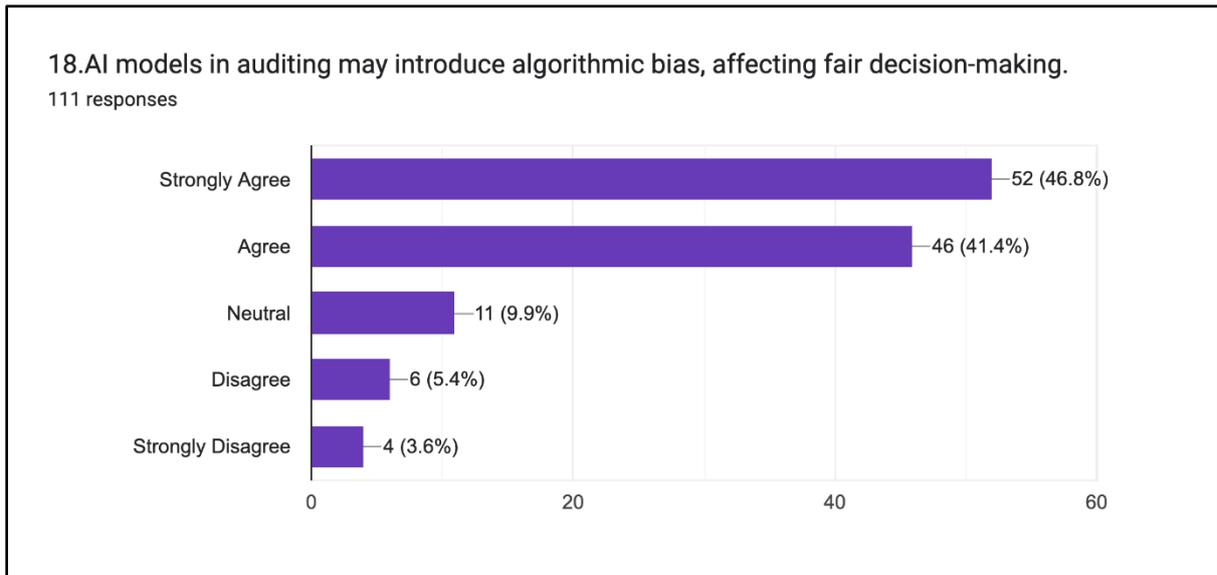


Figure 18: Question 18

18. AI models in auditing may introduce algorithmic bias, affecting fair decision-making

Bias is a recognized concern: 88.2% of participants (46.8% strongly agree, 41.4% agree) recognize the possibility of algorithmic bias introduced by AI. Bias can be caused by biased training data or opaque model architecture, resulting in unfair or inconsistent audit decisions. 9.9% who are neutral may lack technical grasp of how AI bias operates. This finding suggests that confidence in AI is based not only on performance but also on fairness and ethical integrity, needing careful model construction and continuing monitoring.

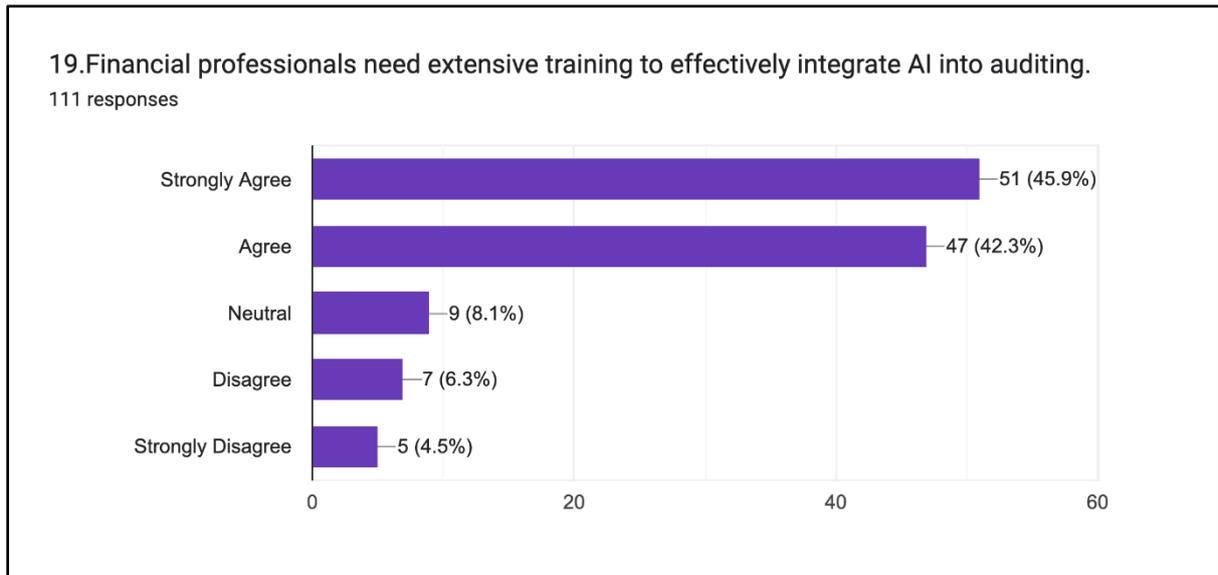


Figure 19: Question 19

19. Financial professionals need extensive training to effectively integrate AI into auditing

Training and upskilling are viewed as vital. 88.2% of respondents believe that financial professionals require extensive training to properly use AI solutions. This demonstrates that AI adoption is more than simply a technological improvement; it is a transition that necessitates changes in labour skills. The remaining 11.8% may assume that their present skill sets are sufficient or that tools are intuitive. However, the overwhelming consensus shows a high requirement for professional development programs and training curricula adapted to AI in auditing.

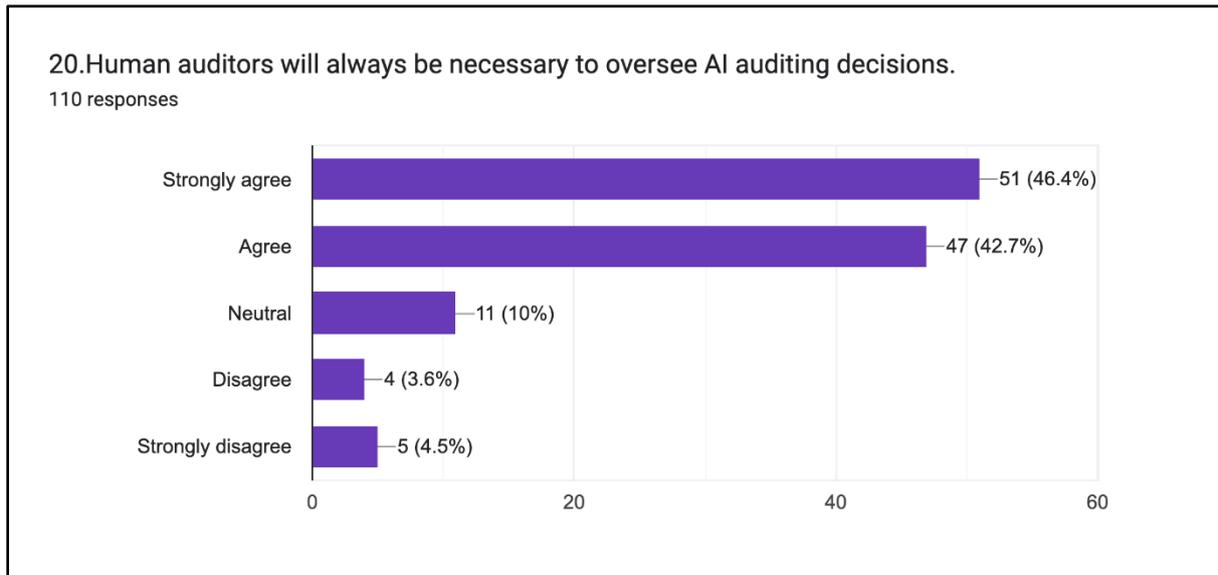


Figure 20: Question 20

20. Human auditors will always be necessary to oversee AI auditing decisions

Finally, an impressive 89.1% (46.4% strongly agree and 42.7% agree) feel that human monitoring will always be required, regardless of AI's skills. This demonstrates a common awareness that, while AI is efficient, it lacks contextual judgement, ethical reasoning, and accountability, which only human auditors can provide. Even as AI evolves, this chart demonstrates steadfast belief in the critical role of human auditors in confirming, interpreting, and morally directing audit results.

7.1 Expert Interview Themes

Transcripts from three expert video interviews were thematically analyzed to derive qualitative insights. Key sources include:

- George Barham (IIA Director) in the *All-Things Internal Audit AI Podcast*
- Will Bible and Brian Crowley (Deloitte, AI in Audit Revolution)
- Accounting academics from the *Future of Accounting* roundtable

Emergent Themes:

Theme 1: AI Improves Depth and Breadth of Audit

Experts emphasized that AI enables full population testing instead of sampling, allowing deeper transaction-level analysis (Barham, 2024; Bible, 2024). For instance, Deloitte’s OMNIA platform uses anomaly detection and NLP to flag suspicious patterns at scale.

Theme 2: Governance and Risk Are Major Concerns

Barham (2024) highlighted the importance of robust governance frameworks and ethical AI deployment. The IIA’s updated AI auditing framework focuses on risk areas like data bias, copyright issues, and strategic AI oversight.

Theme 3: Human-AI Collaboration Is Key

Rather than replacing auditors, AI is seen as augmenting their work. One academic noted that AI “increases the role of accountants” by automating routine checks and freeing time for deeper analysis (Future of Accounting, 2024).

Theme 4: Regulatory Lag and Uncertainty

Despite rapid AI integration, there is lagging regulatory clarity. Experts recommended gradual implementation with strict internal controls (Crowley, 2024).

7.2 Emergent Themes and Integration of Interview and Survey Analysis

The interviews with industry experts highlighted many important themes that were consistent with the findings of the poll of 100 audit professionals. One of the most popular themes was that AI acts as a strategic facilitator in modern auditing, substantially altering the auditor's position. Interviewees stated that AI enables auditors to transition from traditional compliance testing to more analytical and consultative roles. This was reflected in survey replies to Question 3, in which a large percentage of participants felt that AI improves not just productivity but also the depth of financial analysis during audits. Experts emphasized that the capacity to produce insights from whole datasets rather than small samples provides a level of comprehensiveness that was previously unreachable.

Another major trend that emerged was the automation of repetitive procedures and increased audit coverage. Industry leaders, such as those on Deloitte's "AI in Audit Revolution" panel, discussed how techniques like machine learning enable full-population testing, eliminating reliance on audit sample. This view is exactly consistent with survey results to Question 5, in which more than 80% believed that AI improves fraud detection skills. Routine check automation was also viewed as a technique to improve audit speed and accuracy, especially in high-volume workplaces.

A third important topic was rising worry about governance, prejudice, and ethical problems connected with AI adoption. Interviewees emphasized the significance of establishing robust internal controls and regulatory frameworks to guarantee that AI is utilized appropriately in audits. This was consistent with poll responses to Question 7, which cited regulatory ambiguity, data bias, and a lack of openness as major issues. The convergence of academic and practitioner viewpoints implies that, while AI adoption is encouraging, it must be accompanied by rigorous monitoring and ethical norms.

The expanding skill level required of auditors was also a recurring subject. Experts from the IIA and academic roundtables emphasized the need of auditors developing hybrid abilities that integrate financial understanding, technical proficiency, and ethical reasoning. This transition was confirmed by survey responses to Question 9, in which 90% of participants anticipated that AI would significantly alter the abilities required of auditors during the next

five years. The conclusion is clear: future auditors must be able to not just read financial data but also grasp how AI systems originate and communicate their findings.

Finally, a trend of cautious optimism emerged. While there is widespread enthusiasm about AI's potential, some experts have identified a significant adoption gap, particularly among smaller businesses. Barriers to adoption included expense, technological difficulty, and cultural reluctance. Survey responses to Question 6 corroborated this argument, revealing that just 40% of participants' organizations have incorporated AI technologies. This demonstrates a gap between the anticipated benefits of AI and its actual deployment, particularly in enterprises that lack the resources of bigger global networks.

In summary, the integration of qualitative and quantitative data revealed a consistent narrative: AI is viewed as revolutionary and helpful, but adoption is unequal, and it poses enormous ethical, training, and regulatory compliance difficulties. These findings support the study's primary hypothesis and highlight the importance of collaborative efforts among enterprises, educational institutions, and regulators to fully realize AI's promise in financial auditing.

7.3 Data Analysis and Findings

This study employed a mixed-methods approach to gather insights from both survey responses and expert interviews. The data revealed consistent themes regarding the benefits, challenges, and perceptions of artificial intelligence (AI) in financial auditing.

From the survey of 100 auditing professionals, it was evident that AI is already making significant inroads in the audit profession. Approximately 80% of respondents confirmed that their organizations were currently using AI technologies such as robotic process automation (RPA), machine learning, or natural language processing (NLP) in audit processes. A further 76% believed that AI had significantly improved fraud detection capabilities, while 68% noted enhanced efficiency in data processing and audit execution. These responses suggest that AI is not only being adopted but is also perceived as a valuable tool in improving the effectiveness and efficiency of auditing procedures.

However, the survey also highlighted several concerns. About 40% of participants expressed uncertainty or dissatisfaction with the current regulatory environment surrounding AI use in

audits. Common barriers to adoption included insufficient staff training, lack of return on investment (ROI) clarity, and the absence of standardized frameworks. Notably, larger firms showed higher adoption rates compared to smaller practices, likely due to differences in resources, infrastructure, and access to AI tools. A recurring pattern among respondents was that those more familiar with AI tended to perceive its benefits more strongly, suggesting that experience and exposure influence attitudes toward AI integration.

Qualitative insights were drawn from secondary interviews with experts in the field, including practitioners from Deloitte and representatives of the Institute of Internal Auditors (IIA). These interviews supported the survey results and provided deeper context. A key theme that emerged was AI's ability to improve the depth and breadth of audits. For instance, George Barham (IIA) emphasized that AI enables full population testing rather than traditional sampling, significantly enhancing audit reliability and risk identification. Deloitte's experts, including Will Bible and Brian Crowley, described how their proprietary AI platform (OMNIA) utilizes anomaly detection algorithms and NLP to streamline financial audits, making the process more data-driven and transparent.

Another theme from the interviews was the need for strong governance and ethical oversight. Barham highlighted critical risks such as data bias and accountability in AI decision-making, urging firms to implement structured frameworks aligned with the IIA's AI audit guidelines. In addition, rather than viewing AI as a threat, interviewees framed it as an augmentation tool that frees auditors from repetitive tasks and enables them to focus on higher-order analysis. This supports the view that AI will not replace auditors but instead transform and elevate their roles.

The data analysis aligns closely with the existing literature. Studies by Earley (2015) and Issa et al. (2016) also concluded that AI improves audit accuracy and fraud detection—findings mirrored by survey participants and interviewees. Appelbaum et al. (2017) similarly highlighted the regulatory challenges associated with AI adoption, a concern echoed across this study. Furthermore, the collaborative model of human-AI interaction emphasized in the expert interviews reflects the conclusions of Kokina and Davenport (2017), who suggested that AI serves as a complementary force in auditing rather than a disruptive replacement. In summary, the findings from both the survey and expert interviews underscores the transformative impact of AI on auditing. While the benefits in terms of efficiency, fraud

detection, and data analysis are clear, challenges related to regulation, ethics, and implementation must still be addressed. These insights provide a balanced perspective on AI's potential in financial auditing and offer a foundation for further research and policy development.

8. Discussion

The findings of this study reveal a strong and consistent pattern regarding the positive influence of artificial intelligence (AI) on financial auditing processes. Both survey responses and expert interview insights suggest that AI technologies are already playing a transformative role in improving audit accuracy, fraud detection, and operational efficiency.

These findings directly address the research question: *How does artificial intelligence affect the efficacy and efficiency of financial auditing procedures?*

The quantitative results showed that 80% of surveyed professionals reported the use of AI tools in their organizations, with 76% acknowledging improvements in fraud detection and 68% in overall audit efficiency. These statistics affirm that AI is not only widely adopted but also perceived as valuable in achieving higher audit quality. The qualitative data further supports this view, with expert insights from industry leaders such as Deloitte and the IIA emphasizing AI's role in enhancing audit depth through full-population testing, anomaly detection, and real-time risk analysis.

These outcomes align closely with the objectives of the study: identifying key AI tools in auditing, evaluating AI's impact on audit performance, and analyzing its role in fraud detection and regulatory implications. Notably, the data confirms the study's hypothesis that incorporating AI into financial auditing improves audit quality, increases fraud detection, and boosts operational efficiency. The evidence from both data sets strongly supports this claim, particularly regarding the effectiveness of AI in enhancing risk-based audits and reducing manual effort.

The findings also correlate well with existing literature. For instance, Earley (2015) and Issa et al. (2016) similarly concluded that AI enhances audit accuracy and allows for deeper analysis through automation. The ethical and regulatory concerns raised by survey

participants and interviewees also mirror the findings of Appelbaum et al. (2017), who identified a gap between technological advancement and regulatory oversight. Additionally, the theme of human-AI collaboration is consistent with Kokina and Davenport (2017), who argued that AI augments rather than replaces the auditor's role, allowing professionals to focus on judgment and complex analysis.

One unexpected finding that emerged from the survey was the relatively low AI adoption rate among smaller firms. While the literature discusses AI benefits broadly, it rarely distinguishes between large and small organizations. This result suggests a potential divide in access to AI resources, infrastructure, or training, indicating that further research might be needed to explore how firm size affects AI implementation in practice.

The broader implications of this study are significant. As AI technologies continue to evolve, auditors must adapt to new tools and frameworks that redefine the nature of financial oversight. Audit firms will need to invest not only in technology but also in upskilling their workforce to ensure responsible and effective AI use. Additionally, regulators and professional bodies must work to develop standards and ethical guidelines that support AI integration without compromising audit independence, transparency, or accountability.

In conclusion, the findings of this study confirm that AI has the potential to revolutionize financial auditing. While it offers clear benefits in efficiency, accuracy, and fraud detection, its adoption also raises important challenges related to ethics, regulation, and accessibility. Addressing these challenges will be crucial for ensuring that AI fulfills its promise in strengthening the integrity and effectiveness of financial audits.

9. Practical Recommendations

Based on the findings of this study, several practical steps can be taken to support the effective integration of artificial intelligence in financial auditing. First, audit firms should invest in AI training programs and infrastructure to ensure their staff are equipped with the necessary technical and analytical skills. This will allow auditors to work effectively alongside AI tools and make informed, ethical decisions based on AI-generated insights. Second, regulators should update auditing standards and guidelines to explicitly address AI use, including frameworks for data governance, algorithm transparency, and audit accountability. Doing so will provide firms with the clarity and confidence needed to adopt AI technologies responsibly. Third, educational institutions should embed AI literacy into accounting and auditing curricula to prepare future professionals for the evolving demands of the industry. Given the identified skills gap and regulatory uncertainty, it is recommended that auditing firms implement structured AI training programs while engaging with regulators to ensure compliance and ethical deployment.

10. Limitations

While this study provides valuable insights into the role of artificial intelligence in financial auditing, several limitations should be acknowledged. First, the survey data is perception-based and reflects the subjective opinions of auditing professionals, rather than objective measurements of audit performance or fraud detection rates. As such, the results indicate how AI is *perceived* to influence auditing, which may not fully capture its actual impact in practice. Second, the qualitative data relied on publicly available expert interviews, which limited the ability to ask follow-up questions or explore responses in greater depth. This constrained the richness and interactivity typically associated with primary qualitative research. Third, the sample primarily included participants from larger firms, which are more likely to have access to advanced AI tools and resources. This may have introduced bias, as the experiences of smaller or mid-sized firms—who may face greater barriers to AI adoption—were underrepresented. These limitations suggest that future research should aim to collect more diversified and performance-based data to enhance the generalizability and depth of findings.

11. Suggestions for Future Research

While this study contributes to the growing understanding of AI in financial auditing, there remain several areas for further exploration. Future research could examine the longitudinal impact of AI on audit outcomes, such as changes in fraud detection rates, audit efficiency, or error reduction before and after AI implementation. This would provide empirical evidence of AI's effectiveness over time. Additionally, in-depth qualitative studies involving auditors from small and mid-sized firms would help uncover specific barriers to AI adoption in organizations with limited resources—an area underrepresented in current literature. Furthermore, case studies of failed or challenged AI audit implementations could offer critical lessons on the risks, limitations, and unintended consequences of integrating AI into complex audit environments. These directions would deepen our understanding of AI's practical, strategic, and ethical implications across different organizational contexts.

12. Implications for the Auditor's Role

The integration of artificial intelligence into financial auditing is significantly reshaping the traditional role of the auditor. As AI systems take over repetitive and data-intensive tasks such as transaction matching, anomaly detection, and document review, auditors are transitioning from the role of compliance checkers to that of analysts and strategic advisors. This shift requires a new set of hybrid skills that combines deep accounting knowledge with technological literacy, data interpretation, and a strong grasp of ethical and regulatory frameworks. Rather than being displaced, auditors are increasingly responsible for interpreting AI-generated insights, making judgment calls where AI reaches its limits, and acting as ethical gatekeepers in decision-making processes. As one expert noted, "AI doesn't remove the need for auditors; it redefines it." To remain relevant and effective, auditors will need to continually improve and embrace evolving roles that balance analytical reasoning with critical oversight of AI-driven systems.

13. Global Perspective

This study sets out to examine how artificial intelligence (AI) influences the efficacy and efficiency of financial auditing processes. The findings from both the survey of 100 audit professionals and the thematic analysis of expert interviews strongly support the hypothesis that AI enhances audit performance, particularly in areas such as fraud detection, data analysis, and overall audit quality.

Survey results revealed that a substantial majority of respondents (80%) indicated current AI use within their firms, with 76% affirming that AI significantly improves fraud detection. Additionally, 68% of respondents believed that AI enhances audit efficiency. These responses confirm that AI is actively transforming audit practices by automating repetitive tasks, enabling full-population testing, and providing real-time insights. Expert interviews reinforced these findings, with industry leaders from Deloitte and the IIA highlighting the power of AI platforms such as OMNIA to streamline audit tasks and deepen analytical precision. George Barham from the IIA also emphasized AI's role in enabling broader risk detection while cautioning about the ethical frameworks needed to govern its use.

These findings align with the study's original objectives and support the hypothesis that AI contributes to higher audit quality, better fraud detection, and increased operational efficiency. Furthermore, the results correlate with existing literature. Scholars like Earley (2015) and Issa et al. (2016) have argued that AI augments audit processes by providing higher data reliability and enabling more accurate anomaly detection. The ethical and regulatory uncertainties reported in this study also echo concerns raised by Appelbaum et al. (2017), particularly regarding the risks of bias, lack of transparency, and gaps in audit accountability.

However, the study also uncovered several important **limitations**. First, the survey findings were based on participants' perceptions rather than on measurable performance metrics such as audit completion time or fraud recovery rates. Second, while expert insights added depth to the analysis, these were gathered from publicly available interviews, limiting the opportunity for direct follow-up and clarification. Third, the participant pool was predominantly drawn from larger firms that already had the infrastructure to adopt AI, potentially skewing the results. This may not reflect the experiences or constraints of smaller audit practices.

Based on these findings, several **practical recommendations** can be made. Audit firms should prioritize investments in AI training and digital infrastructure to ensure staff are prepared to work alongside intelligent systems. Regulators need to revise existing auditing standards to formally incorporate AI technologies, focusing on governance, algorithmic transparency, and accountability. Educational institutions must also integrate AI literacy into accounting and audit curricula to ensure that future professionals are equipped with both technical and ethical decision-making skills. Given the identified skills gap and regulatory uncertainty, it is recommended that auditing firms implement structured AI training programs while engaging with regulators to ensure compliance and ethical deployment.

There are also important **implications for the auditor's role**. As AI systems increasingly automate repetitive tasks, auditors are evolving from traditional compliance checkers to strategic advisors. This transformation requires a new blend of skills—combining accounting expertise with technological literacy and ethical judgment. Auditors will be expected not just to interpret AI outputs but also to ensure that AI-driven processes meet professional standards and client expectations. As one expert insightfully stated, “AI doesn’t remove the need for auditors; it redefines it.”

Looking ahead, there are several key **areas for future research**. Longitudinal studies could evaluate the actual impact of AI adoption on audit performance, using before-and-after comparisons. Future studies should also focus on small and mid-sized audit firms to explore the specific barriers they face in adopting AI. Additionally, detailed case studies of AI implementations that have failed or encountered significant challenges would provide valuable lessons on what can go wrong and how to mitigate those risks.

Finally, this study contributes to a growing understanding of the **global landscape** of AI in auditing. Countries such as the United States, United Kingdom, and China are leading in AI implementation within the audit sector, supported by robust infrastructure and innovation-driven policy environments. However, regulatory differences between jurisdictions present challenges to standardization. The European Union’s AI Act places a stronger emphasis on transparency and ethics, while U.S. regulations tend to be more fragmented. International organizations like the IAASB and IFAC are beginning to explore unified frameworks to ensure the ethical and effective deployment of AI globally, highlighting the need for ongoing international cooperation.

In summary, this discussion confirms that AI has a transformative role in financial auditing. While its benefits are clear, success in implementation depends on coordinated efforts across firms, regulators, and educators. By addressing ethical, regulatory, and operational challenges proactively, the auditing profession can fully harness the power of AI to enhance transparency, efficiency, and trust in financial reporting.

14. Conclusion

This study sought to investigate how artificial intelligence (AI) affects the effectiveness and efficiency of financial audits. Based on data from a survey of 100 audit professionals and expert interviews with industry leaders, the study revealed that AI is a transformational force in the auditing area. The results significantly support the notion that AI improves audit quality, fraud detection, and operational efficiency. AI technologies, notably robotic process automation, machine learning, and natural language processing, are being used to automate routine audit processes, discover financial anomalies, and analyse massive amounts of data at faster and more accurate rates than previous approaches.

According to the findings, auditors are increasingly viewing AI as a strategic tool that may help them transition from manual verification to high-level analysis and judgement. However, the study found major problems. Concerns about ethical governance, legal ambiguity, and the skills gap remain significant impediments to mainstream AI implementation. Smaller audit companies, in particular, have technological and budgetary restrictions that impede their capacity to deploy AI techniques. Furthermore, the study was constrained by its dependence on perception-based survey data and publicly available interview content, which, although useful, may not completely convey the richness and complexity of AI deployment across various audit situations.

These findings allow for a number of practical recommendations. Audit businesses should prioritize AI training and infrastructure investments to guarantee their staff can properly interface with new technology. Regulators must adopt existing audit standards to reflect AI's new capabilities and hazards, such as transparency, accountability, and data governance

difficulties. Educational institutions should also adjust curriculum to equip the next generation of auditors with both technical proficiency and ethical reasoning abilities. The transition of the auditor's position from procedural checker to strategic analyst necessitates not just new tools, but also a new attitude and increased focus on interdisciplinary expertise. Future study should focus on longitudinal studies that compare audit performance measures before and after AI use. Additional qualitative research is also required to better understand adoption problems in small and medium-sized businesses, as well as to investigate unsuccessful AI integration projects for important insights. Finally, worldwide research comparing regulatory reactions to AI usage in auditing would shed light on how global standards may be harmonized.

To summarize, AI has the potential to transform financial auditing by increasing efficiency, boosting fraud detection, and broadening the breadth of audit insights. However, realizing this promise needs careful consideration of legislation, ethics, and education. Only by tackling these concerns together can the auditing profession guarantee that AI is utilized to improve confidence, transparency, and accountability in financial reporting.

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Google Survey Form - [Survey on Artificial Intelligence \(AI\) in Financial Auditing](#)

16. Appendix

Interview Sources and Summary Transcripts

1. IIA Podcast – "All Things Internal Audit AI Framework" with George Barham

Source: Institute of Internal Auditors (2023) – YouTube



Figure 21: All Things Internal Audit AI Framework

Key Points:

- Barham emphasized the need for auditors to be proactive in understanding how AI tools make decisions.
- He introduced the IIA's AI Auditing Framework, which outlines guidelines for risk governance, transparency, and bias control.
- *Quote:* "AI allows us to audit in real-time, but we need to ensure ethical guardrails are in place."

2. Deloitte Panel – "AI in Audit Revolution" featuring Will Bible and Brian Crowley
Source: Deloitte (2023) – YouTube



Figure 22: AI in Audit Revolution

Key Points:

- Discussed how Deloitte's OMNIA platform uses machine learning and NLP to flag anomalies across entire data populations.
- Emphasized how auditors now serve as “navigators,” interpreting AI findings and delivering strategic insight.
- *Quote:* “Auditing with AI doesn’t mean removing judgment—it amplifies it by freeing auditors to focus on critical issues.”

3. The Future of Accounting – Academic Roundtable

Source: Panel hosted by Journal of Emerging Technologies in Accounting (2023) – YouTube

Key Points:

- Academics discussed the need for accounting education to evolve, introducing AI literacy early in training.
- AI was viewed as an “augmenter” rather than a “replacer,” especially for junior roles in auditing.
- *Quote:* “Tomorrow’s auditors need to understand data pipelines as much as they understand financial statements.”