

@2023 International Council for Education Research and Training ISSN: 2959-1376

2023, Vol. 02, Issue 04, 328-343 DOI: https://doi.org/10.59231/SARI7643

AI in Auditing: A Comprehensive Review of Applications, Benefits and Challenges

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Abstract

The rapid evolution of artificial intelligence (AI) technologies has brought about transformative changes in various industries, and the field of auditing is no exception. This research paper presents a comprehensive review of the integration of AI in auditing practices, highlighting its applications, benefits, and associated challenges. Auditing, a critical process for ensuring the accuracy and reliability of financial information, has traditionally been a labor-intensive and time-consuming endeavor. The emergence of AI technologies, such as machine learning, natural language processing, and data analytics, has revolutionized the way audits are conducted. AIpowered auditing tools offer advanced capabilities for data analysis, pattern recognition, anomaly detection, and risk assessment. These capabilities enhance the effectiveness and efficiency of audits by allowing auditors to focus on high-risk areas and perform more in-depth analysis. The paper explores various applications of AI in auditing, including: Automated Data Analysis, Predictive Analytics, Fraud Detection, and Natural Language Processing (NLP), Continuous Monitoring. While AI brings significant benefits to the auditing process, its adoption also presents certain challenges like Data Quality and Integration, Interpretability, Ethical Considerations, Technical Expertise, Regulatory Frame Work. In conclusion, AI has the potential to revolutionize auditing practices by enhancing efficiency, accuracy, and risk assessment. However, successful integration requires addressing challenges related to data quality, transparency, ethics, skills, and regulations. As AI technologies continue to evolve, auditors and stakeholders must collaborate to harness the full potential of AI while maintaining



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the integrity and credibility of the auditing process. This paper serves as a comprehensive resource for auditors, researchers, and policymakers seeking to understand the current landscape and future directions of AI in auditing.

Keywords: Artificial Intelligence, (AI), Auditing, Deep Learning, Predictive Analytics, Fraud Detection, Natural Language Processing (NLP).

Technology is a useful servant but a dangerous master

-Christian Locus Lange

I. Introduction

today's rapidly evolving business landscape, auditing plays a critical role in ensuring financial transparency, compliance with regulations and the detection of financial irregularities. Traditionally, auditing has been a labor-intensive and timeconsuming process, relying heavily on data manual analysis and sampling techniques. However, with the advent of Artificial Intelligence (AI) and Machine technologies, Learning the auditing profession is undergoing a significant transformation. This comprehensive review aims to explore the various applications, benefits and challenges of AI in Auditing.

Auditing:

Auditing is a systematic examination and verification of individuals, organizations or entity's financial statements. records transactions or operations. The primary purpose of auditing is to provide independent and objective assessment of the accuracy, completeness and reliability of financial information. Auditing plays a crucial role in ensuring transparency, accountability and trust in financial reporting for various stakeholders including investors, shareholders, creditors, regulators and the public.

Artificial Intelligence (AI):

AI refers to the simulation of human intelligence process by machines especially computer system. Specific application of AI includes expert systems, Natural Language Processing (NLP), speech recognition and machine vision. John MC Carthy (1955) considered as the father of AI.

Machine Learning (ML):



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ML is a branch of artificial intelligence that develops algorithms by learning the hidden patterns of the datasets used it to make predictions on new similar type of data, without being explicitly programmed for each task. Arthur Samuel (1959) considered as the founder of machine learning.

Deep Learning (DL):

DL is a subfield of machine learning that focuses on training artificial neural networks to perform tasks that typically require human intelligence. DL is a type of machine learning algorithm that attempts to mimic the human brain's ability to learn and make decisions. Geoffrey Hinton developed Deep Learning (1986).

Natural Language Processing (NLP):

NLP is a machine learning technology that gives computers the ability to interpret, manipulate and comprehend human languages (Voice and Text data). Alan Turing (1950) is the father of Natural Language Processing.

Block Chain Technology:

A block chain is a 'distributed database that maintains a continuously growing list of

ordered records, called blocks, these 'blocks' are linked using cryptography, each block contains a cryptographic hash (#) of the previous Block chain in a decentralized manner. Most block chains are entirely open-source software. The first decentralized block chain was conceptualized by a person (or group of people) known as Satoshi Nakamoto in 2008.

Big Data Analytics:

It is the process of examining big data (large volume of data) to uncover information such as hidden patterns, correlations, market trends and customer preferences that can help organizations make informed business decisions. John R. Mashey (1990) is the father of big data analytics.

These six concepts (AI, ML, DL, NLP, Block Chain and Big Data Analytics) are used in 'Application of AI in Auditing'.

II. Research Question:

What are the current and potential impacts of Artificial Intelligence on the field of auditing and how can AI Technologies be effectively integrated into auditing Processes to enhance efficiency, accuracy and risks?



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III. Targeted Audience:

Students/faculties of Institute of Chartered Accountants of India (ICAI), Institute of Cost and Management Accountants of India (ICMI), Institute of Company Secretaries of India (ICSI), Institute of Management (IAM), Institute of Technology (IIT), National Institute of Information Technologies (NIIT), working professionals and those persons who are interested in Auditing Field.

IV. Objectives of the study:

The primary objectives of this study are as follows:

- 1. To provide a detailed overview of AI technologies and their potential applications in auditing
- 2. To examine the benefits and advantages of incorporating AI in the auditing process
- 3. To explore the challenges and limitations associated with the implementation of AI in auditing and
- 4. To suggest future research directions and opportunities for further enhancing AI-driven auditing practices.

V. Need for Study

The purpose of this study is to explore the effects of AI-based systems in enhancing effectiveness of auditing process by exploring the interaction of auditing process with AI tools.

Since AI is still at the infancy stage, it hoped that determining this benefit would contribute to knowledge in this emerging study area and equally spur corporate governors to advocate for the integration of AI systems with the consideration of accounting and auditing departments. As a result, companies will enhance the quality of audits through effective audit processes improved by accurate AI systems.

VI. Research Methodology:

Theoretical and conceptual framework used in this research work.

VII. Data Collection Methods:

As the study is theoretical and conceptual framework in nature, Secondary data used for the study. The secondary collected from emagazines, e-journals, e-books and the websites of corporate sectors.

VIII. Review of Literature:



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Historically, auditors relied heavily on manual processes and sampling methods to perform audits. However, AI adoption in auditing began to accelerate in the late 20th century and early 21st century. Key milestones include the development of AI-based audit software such as IDEA and ACL, which offered data analytics

capabilities for auditors. As of 2021, AI used in various aspects of auditing like Data Analytics, NLP, and ML in risk management and Automation of routine tasks. Artificial Intelligence (AI) known as Cognitive Technology or Cognitive Computing.

Some of the earlier studies are as follows:

S.No.	Studies	Main focus of the study	Discussed AI Technologies		
1.	Meservy et.al (1992)	Application of AI in audit	• Expert/Decision		
		services	Support System		
			Simulation Model		
2	O'Leary (1995)	Taxonomy of papers/studies	Multiple Agents		
		conducted in the areas of	• Neural Networks		
		Auditing relating to AI	• Knowledge-based and		
			Expert System		
			Case based reasoning		
			Cognitive Models		
3	O'Leary& O'Keefe	Analysing relative impact of	Expert System		
	(1995)	expert system on auditing and			
		taxation using Perrow's			
		Sociological framework			
4	Zhao et al. (2004)	Outlining threats &	Continuous Auditing		
		Challenges to traditional	• Expert System		
		auditing			
		Comparison and contrast			
		between traditional and			
		continuous auditing			



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		• Future outlooks on			
		continuous auditing			
5	Lam (2004)	Investigating the ability of neural	Neural Networks		
		network to integrate fundamental	Backpropagation		
		and technical analysis in	Algorithm		
		financial performance Prediction			
6	Baldwin et al.	• Review of audit	Genetic Algorithms		
	(2006)	problems that could use	Neural Networks		
		application of AI	Fuzzy System		
		• Breaking down and	Hybrid System		
		outlining audit tasks where			
		various AI technologies can be			
		augmented			
7	Omoteso (2012)	• Review of existing	• Expert System (ES)		
		researches and use of AI			
		Systems by the auditors			
		• Predicting future			
		directions of research and			
		Software Development in the			
		area of AI	Neural Networks (NN)		
		• Mapping of the			
		development process of AI			
		systems in auditing			
8	Huq (2014)	Analysing relative impact	Machine Learning		
		of AI on auditing and taxation	(ML)		
			• Speech Recognition		
			(NLP)		
			• Automation		



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9	Bizarro, P.A. and	Defining the benefits and risks	• Automation		
	Dorian, M (2017)	occurring form the integration of			
		AI in Accounting and Auditing			
10	Kokina &	• Providing an overview of	• Cognitive		
	Davenport (2017)	the emergence of AI in auditing	Technologies (AI)		
		• Discussion on the impact	Automation		
		of Cognitive Technologies on			
		human auditors and the audit			
		process itself			
11	Ukpong et al (2019)	• Reviewing various	• Automation		
		auditing problems and the call	Machine Learning		
		for AI application in the	(ML)		
		discipline	Data Mining		
		• Investigation of	Cognitive Computing		
		stakeholder's perspective	(AI)		
		regarding AI application in	• NLP		
		Nigerian Banks	• Robotics		
12	Zemankova (2019)	• Introducing the use of AI	• Decision Support		
		in accounting and auditing with	Systems		
		special focus on block-chain	Knowledge-based		
		Technologies	expert System		
		• Providing an analysis of	• Genetic		
		audit aspects benefiting from AI	Algorithms/Programming		
		application	Fuzzy Systems		
		• Evaluating the AI	Neural Networks (NN)		
		endeavours of the BIG 4	• Robotic Process		
			Automation (RPA)		
			• Block Chain		



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			Technology			
			•	Smart Contracts		
			•	Smart	Audit	
			Procee	Procedures		
13	Ucoglu (2020)	Review of the Present Machine	•	Machine	Learning	
		Learning applications in	(ML)			
		accounting and auditing with				
		focus on the BIG 4				

IX. AI Technologies and their applications in Auditing

- Data Extraction and Processing: AIdriven auditing begins with the collection and processing of vast amounts of financial data. AI algorithms can extract data from various sources. including financial statements. invoices, receipts, and transaction records. Natural Language Processing (NLP) techniques help in understanding unstructured data such as contracts and textual information.
- Risk Assessment: AI systems can analyse historical financial data and patterns to identify potential risks and anomalies. By comparing current financial statements to historical trends, AI can flag irregularities such as unexpected fluctuations in revenue or unusual expense patterns, which auditors can then investigate further.

- Fraud Detection: AI plays a crucial role in fraud detection. Machine learning models used to train to recognize known fraud patterns and adapt to new fraud schemes as they emerge. These models can identify suspicious transactions, unusual user behaviours, or discrepancies in financial records that may indicate fraud.
- Predictive Analytics: Auditors can use AI for predictive analytics to forecast future financial performance and potential risks. This can be especially helpful for planning audits and allocating resources effectively. Machine learning models can analyse historical data and market trends to make predictions about a company's financial health.
- Automation of Routine Tasks: AI technologies automate many routine and time-consuming auditing tasks. For example, reconciling financial statements, checking for mathematical errors, and verifying compliance



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with accounting standards can be automated. This allows auditors to focus on more complex tasks requiring human judgment.

- Advanced Analytics: AI enables auditors to perform more in-depth analysis of financial data. For instance, cluster analysis can group similar transactions together, helping auditors identify commonalities or outliers. This can be valuable in identifying potential risks or irregularities.
- Continuous Auditing: Traditional auditing is typically done annually or quarterly. AI allows for continuous auditing, where data is analysed in real-time or at shorter intervals. This proactive approach helps companies identify and address issues as they arise, reducing the likelihood of financial errors or fraud going unnoticed.
- Document Review and Compliance: AI-powered optical character recognition (OCR) and NLP tools can scan and analyse contracts, agreements, and compliance documents. They can identify clauses, terms, and conditions, ensuring that companies adhere to legal and regulatory requirements.
- Audit Trail and Transparency: Block chain technology, often integrated with AI, can create immutable audit trails, making it

nearly impossible to manipulate financial records. This enhances transparency and trust in the auditing process.

- Customized Reporting: AI can generate customized audit reports based on the specific needs of stakeholders. These reports can provide insights into financial health, compliance, and potential risks in a format that is easy to understand.
- Machine Learning for Pattern Recognition: Machine-learning algorithms can identify complex patterns in financial data that may not be apparent to human auditors. This can help uncover hidden risks or opportunities.
- Natural Language Generation: AI can generate natural language summaries of audit findings, making it easier for non-experts to understand the results. These summaries can be used in communication with clients, regulators, and other stakeholders.
- Natural Language Processing (NLP) algorithms can parse and analyse vast amounts of textual data, allowing auditors to quickly review contracts, financial statements, and regulatory documents. Machine Learning (ML) algorithms can detect anomalies in financial data, identifying potential fraud or errors more effectively than traditional methods.



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For Image and document analysis, Predictive Analysis, Pattern Recognition and Anomaly Detection, Deep Learning (DL) can be used in auditing.

X. Benefits and advantages of incorporating AI in the auditing process

Incorporating artificial intelligence (AI) into the auditing process offers numerous benefits and advantages that can significantly improve the efficiency, accuracy and effectiveness of auditing procedures.

- ❖ Improved Accuracy: AI can analyse vast datasets with high precision, reducing the risk of human errors in audit procedures. Machine Learning algorithms can identify anomalies, patterns and irregularities that may be missed by human auditors.
- Enhanced Efficiency: AI can automate repetitive and time-consuming tasks such as data extraction and data reconciliation, allowing auditors to focus on more complex and value-added activities.AI-powered audit tools can work around the clock, increasing audit speed and timelines.
- ❖ Data Analysis at scale: AI enables auditors to analyse and process large volume

of data quickly, which is especially beneficial in industries with substantial data sets, such as finance and health care.

- ❖ Continuous Monitoring: AI can provide continuous monitoring and real-time alerts, allowing auditors to detect irregularities or potential fraud as soon as they occur rather than relying on periodic audits.
- Risk Assessment: AI can help auditors identify high-risk areas or transactions by analysing historical data and trends, enabling auditors to allocate resources more effectively.
- Fraud Detection: AI algorithms can detect unusual or suspicious patterns in financial transactions, helping auditors uncover fraudulent activities that may otherwise go unnoticed.
- Predictive Analytics: AI can use predictive modelling to forecast financial trends and potential risks, aiding auditors in making proactive recommendations to mitigate these risks.
- Natural Language Processing (NLP): NLP enable auditors to analyse and understand text data, such as emails and documents to identify potential compliance issues or fraudulent activities.
- ❖ Audit Trail and Transparency: AI can create a digital audit trail, providing a





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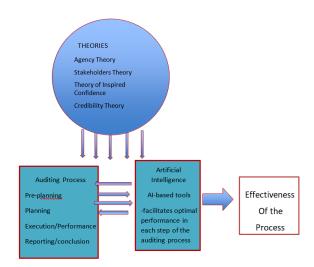
2023, Vol. 02, Issue 04, 328-343 DOI: https://doi.org/10.59231/SARI7643

transparent and traceable record of audit procedures and findings, which can be invaluable for regulatory compliance.

- ❖ Customization: AI-powered audit tools can be tailored to the specific needs and requirements of an organisation or industry, ensuring that audits are conducted effectively and efficiently.
- ❖ Cost Savings: By automating routine audit tasks, AI can reduce labour costs and free up auditors to focus on higher-value tasks, ultimately lowering the overall cost of auditing.
- Regulatory Compliance: AI help auditors stay up-to-date with changing regulations and ensure compliance by continuously monitoring transactions and financial activities
- Scalability: With the help of AI, we can easily scale to handle increased data volumes and complexity, making them suitable for both small businesses and large corporations.
- ❖ Improved Audit Quality: AI's ability to analyse and interpret data can lead to more insightful and accurate audit findings, ultimately improving the quality of audit reports and recommendations.

Faster Decision-Making: AI provide auditors with real-time insights, enabling quicker decision-making and responses to potential issues of risks.

AUDIT RESEARCH PROCESS MODEL:



XI. Challenges and Limitations

The implementation of AI in auditing offers several advantages, such as improved accuracy, efficiency and the ability to analyses large amount of data quickly. However, it has some set of challenges and limitations that need to be carefully considered.

Challenges:

1. Data Quality and Availability: AI systems heavily depends on high quality and structured data. In auditing, ensuring the accuracy and completeness of financial





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data from various sources. Incomplete or inaccurate data can lead to misleading audit results.

- 2. Data Privacy and Security: Auditors deal with sensitive financial information, making data privacy and security a top concern. AI systems must comply with stringent regulations, such as GDPR or HIPAA and auditors must ensure that data used for AI in auditing is handled securely and ethically.
- 3. Interpretability and Explainability: AI models particularly deep learning models are often considered "Black Boxes" because it is difficult to understand how they arrive at their conclusions. Auditors need to be able to explain the reasoning behind audit outcomes, which can be difficult when using complex AI algorithms.
- 4. Bias and Fairness: AI models can inherit biases form the data they are trained on. If the training data is biased, The AI system may produce biased audit results, which can lead to unfair or inaccurate assessments. Addressing bias in AI models is a critical challenge in auditing.

- 5. Regulatory Compliance: Auditing is a highly regulated field and implementing AI may require significant regulatory changes or approvals. Ensuring that AI-based auditing methods comply with industry standards and legal requirements is a complex process
- 6. Human-AI Collaboration: Auditors must work alongside AI systems. There is often resistance to adopting AI because of concerns about job displacement. It can be challenging to strike the right balance between human judgement and AI assistance in the auditing process.
- 7. Cost and Resource Constraints: Implementing AI in auditing requires substantial financial investment, including the cost of acquiring and maintaining AI technology, training auditors and ensuring infrastructure compatibility. Smaller auditing firms may struggle with these financial constraints.

LIMITATIONS:

1. Lack of Historical Data: AI models typically require historical data for training and validations. In some cases, there may not be sufficient historical data are



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available for certain industries or audit areas, limiting the effectiveness of AI.

- 2. Complexity of Auditing Tasks: Auditing involves complex judgement-based tasks that require domain expertise and a deep understanding of business processes. While AI can assist with repetitive tasks and data analysis, it may struggle with nuanced, context-specific judgements.
- 3. Dynamic Business Environments: Business are constantly evolving and new accounting standards, regulations and financial instruments emerge. AI models may struggle to adapt quickly to these changes leading to outdated audit approaches.
- 4. Limited Scope: AI is best suited for tasks that involve pattern recognition and data analysis. Some auditing tasks, such as assessing management integrity or evaluating qualities factors may not be well suited for automation using AI.
- 5. Ethical Concerns: The use of AI in auditing can raise ethical questions, particularly when it comes to potential for AI to make decisions that affect individuals' financial well-being. Ensuring that AI-driven auditing

decisions align with ethical principles is a significant challenge.

- 6. Technology Dependencies: Implementing AI in auditing requires access to advanced technology infrastructure and expertise. Organizations lacking these resources may struggle to adopt AI effectively.
- 7. Ongoing Maintenance: AI models require continuous monitoring and updates to remain accurate and relevant. This ongoing maintenance can be resource-intensive and requires a commitment to staying up-to-date with evolving AI technologies.

XII. KEY FINDINGS AND FUTURE RESEARCH:

Findings:

- a) Automation of Routine tasks:
- AI has demonstrated the ability to automate routing auditing tasks, such as data extraction, categorization and reconciliation. This reduced the time and effort required for these tasks and allows auditors to focus on more complex and judgement intensive activities
- b) Data Analytics for Risk Management:





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AI-driven data analytics tools can analyse large datasets to identify patter, anomalies and potential areas of risk. These tools can help auditors prioritize their efforts and target high-risk areas for more in-depth examination.

c) Fraud Detection:

AI can be used to develop fraud detection models that can continuously monitor financial transactions and identify suspicious activities or unusual patterns. This proactive approach can help to prevent and detect fraud earlier.

d) Natural Language Processing(NLP):

NLP technologies enable auditors to analyses unstructured textual data, such as contracts, emails and financial reports. This helps auditors gain deeper insights and detect potential risk hidden in textual information,

- e) Predictive Analytics: AI can be used to build predictive models that forecast financial trends, audit risks and other relevant factors. These predictive models can inform audit planning and resource allocation.
- f) Continuous Auditing and Monitoring:

Artificial Intelligence enables continuous auditing, allowing auditors to monitor financial transactions and internal controls in real-time. This can lead to more timely identification of issues and better risk management

Future Research Directions in AI in Auditing:

a) Explainable AI (XAI):

Developing AI models that are transparent and can provide explanations for their decisions is critical. Research in this area should focus on making AI-driven auditing processes more understandable and interpretable for auditors and regulators

- b) Ethical Considerations
 As AI plays a larger role in auditing, ethical considerations become paramount.
 Research should explore the ethical implications of using AI in auditing including issues related to bias, privacy and data security
- c) Enhanced Risk Assessment:
 Future research should aim to improve AIdriven risk assessment models by
 incorporating a wider range of data sources,
 including non-financial data, social media
 and industry-specific information.



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- d) Block chain and AI Integration: Investigate how AI can be integrated with Block chain technology to enhance the reliability and transparency where Block chain is prevalent.
- e) Regulatory Frameworks:
 Research should focus on developing and updating regulatory frameworks that accommodate the use of AI in auditing.
 This includes establishing guidelines for AI model validation, security and audit trail maintenance.
- f) Human-AI Collaboration:

 Explore ways to optimize the collaboration between auditors and AI systems. Research should investigate How AI can assist auditors in making more informed decisions and provide decision support rather than replacing human auditors entirely.
- g) Scalability and Accessibility:

 Develop AI tools and technologies that are accessible and affordable for smaller audit firms and organizations. Scalable AI solution can democratize the benefits of AI in auditing.
- h) Cross-Industry Applications:
 Investigate how AI technologies
 developed for auditing can be adapted

- and applied to other domains, such as risk management, compliance and forensic accounting
- i) Robotic Process Automation (RPA): Further research can explore the synergy between RPA and AI in automating repetitive audit tasks and streamlining audit process
- i) AI for Fraud Prevention:

Continued research into AI-based fraud detection and prevention systems with a focus on real-time monitoring and adaptive algorithms.

As AI technologies to advance, the auditing profession will lead to adapt and evolve to harness the full potential of these technologies. Researchers and practitioners in the field should collaborate to address and challenges and opportunities presented by AI in auditing and work towards creating more efficient, transparent and effective audit process.

XIII. CONCLUSION

AI-powered auditing tools have shown remarkable potential in enhancing audit efficiency and accuracy, through automation, data analysis and pattern



@2023 International Council for Education Research and Training ISSN: 2959-1376

recognition. AI can process vast amounts of financial information with unparallel speed and precision, reducing human error and enabling auditors to focus highlevel tasks. This not only effectiveness of audit process but also improves the quality of financial reporting.

In conclusion, AI in auditing is a powerful force that promises to reshape the profession. AI is a game changer for auditors.

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Received on Sep 13, 2023

Accepted on Sep 30, 2023

Published on Oct 15, 2023