

Influence and Applications of AI in Accounting and Audit Practice

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Abstract. The study focuses on how artificial intelligence (AI) is transforming accounting and auditing by turning traditional processes into data-powered, technology-enabled procedures. Automated financial reporting, cognitive data entry, and intelligent transaction classification improve accuracy, save time, and allow professionals to shift from transactional roles to strategic advising. AI also enables real-time fraud monitoring, continuous anomaly detection, and comprehensive risk mapping, facilitating a move from sampling or statistical algorithmic automation toward full-population, ongoing analytics. These advances offer significant benefits, including increased accuracy, enhanced fraud detection, and improved regulatory compliance. However, they also introduce challenges related to AI adoption. Ethical concerns regarding algorithmic transparency, data privacy risks, and potential biases raise questions about accountability. Greater reliance on AI requires practitioners to develop new skills in data analytics and system monitoring, while companies must balance efficiency gains with auditor independence and public confidence. The future of accounting and auditing will likely be built around “hybrid” human–AI collaboration models, supported by emerging regulations and evolving professional norms. By outlining both opportunities and risks, this article contributes to the discussion on how AI is shaping financial services and the future job market within the profession.

Keywords: Artificial intelligence, accounting, audit, risk management, decision support

1. Introduction

The development of artificial intelligence (AI) has been revolutionizing virtually every industry in the global economy for several years now. Auditing and accounting are among the most heavily affected areas, given innovations such as automation, data analytics, and complex algorithms. These gambling on technologies change work habits radically. As AI-based programs progressively underlie or substitute human judgment and manual inputs for such operations, conventional operational processes become dysfunctional This kind of innovation changes the essence of auditing and accounting. Roles are now determined not solely by tasks performed but also underpin decisions and management styles. In the field of accounting, AI technologies now include automatic system submission of data, smart scanning invoices and high-ranking sorting of financial transactions. These tools raise the accuracy and efficiency of routine work tasks, reduce human infelicities such as errors to an irreducible minimum, and enable professionals to concentrate when so employed on

things like business long range financial planning and counseling services. For auditing purposes, AI strengthens risk assessment, uses pattern recognition to detect deviations from the as expected normal domain for example with anomalies and supporting technologies such as continuous auditing can instantly retrieve real Time information from huge data sets. These developments are not simply incremental in nature but represent a radical change in the way financial data is processed and audited as well. Purpose and Research Focus: This research is to investigate how the use of AI impacts professional accountants and auditing workers in actual practice. The research is focused on identifying specific ways in which AI becomes part of professional practice and assessing how such incorporation leads to improved working efficiencies, financial reporting quality, and better management of risk. It also looks at the complications AI brings in. These include matters that need to be resolved such as data privacy, the ethical problems of machine decisions without transparency or accountability and the changing professional roles required for working in AI supported environments Further, the report examines the changing environment extensively.

The paper points out that facilitates real-time financial monitoring of data, quicker analysis and more precise conclusions [1]. Nonetheless, the greater use of sophisticated technologies also brings about novel risks. Data breaches, biased algorithmic procedures, and reduced human oversight threaten the integrity of financial reporting. Further, the spread of AI requires the development of new competencies in data understanding, algorithmic interpretation, and system control, areas where many accounting professionals have inadequate training. The paper's purpose is to comprehend the two-sided nature of AI's effect—simultaneously as an innovation driver and a disruptor. It looks at the increasing demand for new regulations and professional standards for AI application in financial services [2]. Besides, the paper will reflect on the implications for schools and professional certification authorities, which are required to revise curricula and training programs to ready the future generation of accountants and auditors for a digital-first landscape. By investigating recent uses, contemporary shortcomings, and prospects, our work adds to the prevailing body of literature on the effects of on accounting and auditing development. It aims to provide perceptive perspectives for practitioners, decision-makers, teachers, and researchers who are grappling with change during the financial industry. The paper's debate adopts a balanced stance, one which welcomes the future benefits of AI and criticizes its shortcomings and associated risk [2].

2. Literature review

The inclusion of into the accounting field is a fundamental change in the handling, processing, and interpretation of financial information. Increasing academic and industry literature suggests that tools powered by AI are gradually being utilized to automate complex accounting tasks, which before had necessitated significant manual work and were prone to errors committed by humans. Through the implementation of such technologies as robotic process automation (RPA), machine learning algorithms, and natural language processing (NLP), such monotonous operations as entering data, classifying transactions, handling spending, and preparing reports can be accomplished with minimal interference from a human. One of the significant strides in automated accounting is the ability of AI to deal with both structured and unstructured information. While traditional accounting systems relied on set rules and procedures, systems powered by AI can interpret various sources of data such as scanned images, receipts, email messages, and contractual agreements and pull out relevant financial information. This enables the enhancement of data capture accuracy and reduction of the time spent on manual verification. For example, contemporary accounting programs like Xero and QuickBooks has integrated elements of AI which can sort expenses automatically or highlight abnormal spending behaviors [3]. According to the report by

Kokina and Davenport, such development portrays a movement from stiff, rule-based automation systems towards those which are intelligent and can learn from past data and perfect their analytical power with time.

Aside from handle data, AI is equally important in streamlining financial reporting procedures. Those organizations employing AI-enhanced platforms can maintain interactive financial dashboards with real-time data and forecasting analytics. In business entities, even the capabilities of AI are incorporated into the enterprise resource planning (ERP) systems in a way as to allow frequent forecasting and revision of the budget, which gets automated every time there is availability of additional information. Consequently, frequent manual fine-tuning gets significantly reduced, and the finance departments are free from focusing on other strategic allocation of resources work and planning [4]. has also enhanced the efficiency of compliance and regulatory reporting. AI systems can scan regulatory documents and match them against a company's financial activities to detect any potential violations or issues. These capabilities are particularly valuable in the international context where accounting standards and tax laws vary significantly. AI not only helps ensure accuracy but also enables organizations to identify and flag risks in advance, thereby avoiding fines [5]. Moreover, the ability of AI to learn from historical data means that accounting systems can now perform predictive analytics. This includes forecasting cash flows, estimating tax burdens, and predicting sales trends. These functions previously required extensive manual analysis. Today, machine - learning models embedded in accounting platforms can proactively identify trends and offer adjustment suggestions. Though the benefits of automation-driven by AI are apparent, scholars are equally concerned about the risk of overdependence on such systems. As a case in point, data-driven systems based on biased information or incomplete information may produce erroneous results, especially under financial projections or risk analysis. Lack of transparency on the operations of some proprietary algorithms inhibits audibility and accountability. Such worries make a machine partnership model imperative, where accountants are placed in a supervisory and interpretative position of results generated by AI [6].

Technology is entirely redefining risk assessment and fraud detection in the field of auditing. Auditors once used sample testing and manual checks of financial documents to spot anomalies. This method, although systematic, had a narrow focus and tended to omit a few of the finer risk pointers. As compared to that, systems can examine huge sets of transaction data on a real-time basis and spot patterns and abnormalities which cannot be easily detected by manual means. A classic case in point is the deployment of Deloitte's in-house developed platform "Agis". This application uses machine learning algorithms to sift through voluminous transaction data and filter out high-risk transaction records which are subjected to manual scrutiny. Agis has become a part of the work of Deloitte audits, and based on the complexity of the transactions, their frequencies of occurrence, and non-compliance with assumed standards, the major focus areas of the audit can be identified [7]. This serves not only to optimize the efficacy of auditing but further enhances risk detection capabilities.

As an example, EY developed a similar platform, "Helix", which can help the auditing team by processing structured and unstructured information and highlighting inconsistencies, tracing document flows, and conducting predictive analytics. Helix can search across emails, contracts, and account books, to identify discrepancies or abnormalities in suppliers' payments pattern and practices of revenue recognition. It is compatible with continuous auditing through real-time data push, too, which reduces the lag between data collection and report on audits. KPMG collaborated with IBM Watson in establishing an auditing tool via cognitive analysis. Such tools are not only evolving from rule-based detection of abnormalities but even attempting to "understand"

background information via NLP and deep learning techniques [8]. For example, they can identify fraudulent spending by processing not only numerical data, but even language employed within communication via email or purchase order, besides numerical information. Another typical example is PwC's "Aurelia" suite, which includes AI modules designed to audit revenue recognition and inventory data. The system can connect to the client's ERP system, extract transaction data, and evaluate it against accounting standards and historical performance. This helps auditors quickly and efficiently identify misstatements and compliance issues. Academic literature provides support for these practical applications through empirical research. For instance, Isa, Sun, and Vaisakhi demonstrated that AI-based audit analysis outperforms traditional sampling techniques in detecting financial violations, especially in large and complex data sets. Similarly, an experiment conducted by the IBM research department found that AI models trained on historical fraud cases can detect previously undetected fraud patterns with higher accuracy, outperforming traditional legal auditing techniques [9]. Even with these improvements, there are some challenges. One significant challenge is that several systems are "black box" in nature, by which we mean the logic of marked transactions can be challenging to articulate clearly. This poses challenges within the regulatory climate because auditors are asked to articulate clear explanations of their conclusions. Auditors' comprehension of the limitations and assumptions of tools is continually on the rise, too, because overdependence on algorithm output, without close oversight, can cause errors or biases in judgment during audits.

Furthermore, job seeking in auditing work requires a cultural shift within the business. Auditors must be educated in some additional skills such as data science, machine learning, and algorithms interpretation. Such businesses must make expenditures on training and constructing infrastructure as well, facilitating implementation of such tools. Current literature has critically discussed concerns regarding ethics, such as the potential which may replace human judgment or harm the independence of auditors. Overall, AI-based tools have greatly increased the ability of accounting and auditing professionals. Automatic handling of menial tasks, enhancement of risk analysis, and real-time information are all within their capabilities. Even with their probable wide-ranging improvement of efficiencies, their use must be done cautiously and ethically so there can be reliable, transparent, and accountable financial reporting and auditing.

3. AI in accounting

The inclusion of AI into accounting procedures is quickly redesigning conventional workflows and redefining the role of accounting professionals from manual operators to strategic advisors. This development is all about automating daily work, enhancing data correctness, and providing real-time financial information, thus significantly increasing both the quality and effectiveness of financial operations.

3.1. Automated financial reporting

One of the largest changes facilitated by AI is automated financial reporting. Historically, preparing financial statements meant a lot of manual effort—gathering data, reconciliations, error checking, and formatting. Automated systems based on AI can currently prepare financial statements with negligible manual intervention. Such systems employ machine learning algorithms on historical data to recognize patterns, generate reports, and even provide forecasting details.

Automated reporting systems, which are embodied within ERP systems, can produce balance sheets, profit and loss accounts, and cash flow statements on a real-time basis. Oracle and SAP corporations combined their cloud-based ERP systems with AI modules, whose goal was to

automate fiscal close processes. Such modules compress the month-end close cycle from weeks into a few days, or even a few hours. This creates a very responsive accounting function providing up-to-date information to decision-makers [9]. Secondly, such tools are also instrumental in accounting standards compliance. You can request AI algorithms to test financial information on IFRS or GAAP standards, pointing out likely errors and flagging non-compliances. Detection of errors before the fact significantly minimizes the incidence of restatements and fines by regulators.

3.2. Intelligent data entry and classification

The conventional accounting data entry is the most error-prone and time-taking task. This process entails retrieving the information from receipts, invoices, bank statements, and other documents. This task has witnessed a significant transformation with the help of AI in the form of optical character recognition (OCR) and NLP. Today's latest tools like Xero, QuickBooks, and Zoho Books even include smart data entry functionality. Such systems can automatically capture scanned invoices or even emails, pull out pertinent financial information like dates, amounts, vendors, and terms of payments, and enter into the accounting system. Even better, such systems learn from users' corrections done in the longer run, continuously improving their accuracy and minimizing manual interference.

Besides, intelligent classification algorithms automatically categorize transactions into appropriate general ledger accounts. For example, a regular utility company bill can be automatically categorized under “utilities,” and a charge from Amazon can be automatically categorized based on past behavior and situations. Auto-classification reduces cognitive work on the part of accountants and facilitates fast reconciliations and reporting. Such functionality has a substantive impact. According to a 2021 report by Deloitte, organizations utilizing accounting tools with AI said they had reduced data input time by 35% and classification error by 27% compared with manual methods.

3.3. Reduction of human error

Manual procedures, irrespective of how well-qualified the individuals are, are subject to human error—either by faults of data entry, by misclassifications, or by omitting significant entries. AI minimizes such vulnerability by enforcing consistency, by learning from past error, and by subject-based verification based on logic. Machine learning algorithms are capable of recognizing oddities such as duplicate entries, missing information, or values significantly different from past patterns [10]. Such oddities are automatically identified, providing accountants the opportunity of spending time on verification rather than on detection. This enhances the quality of financial records and consolidates the base on which decisions are made, and on which audits are conducted. Furthermore, fraud prevention is aided by AI. Automation can recognize irregular vendor payments, round-dollar payments, or regular payments outside of typical approval procedures. For instance, software such as Mind Bridge Ai utilizes risk-score algorithms to recognize irregularities of a suspect nature, which can be a pointer towards fraud, allowing organizations to strengthen internal controls. The future of the accountant's role is not only automating work done today, but providing a layer of intelligence which improves precision, reduces risk, and devotes human capital to higher-order work. As part of its future role, the accountant would be responsible for supervising systems of AI, making interpretations of output, and drawing data-based conclusions to advise stockholders.

4. AI in auditing

Just as in accounting, is fundamentally reshaping the field of auditing. Auditors are increasingly leveraging AI technologies to improve risk assessments, conduct continuous monitoring, and enhance fraud detection. With these innovations, audits are no longer confined to periodic, sample-based reviews but are evolving into real-time, full-population analyses that offer greater assurance and insight.

4.1. Risk identification and anomaly detection

Conventional audit methods depend on sampling—it's a necessity, of course, because of the volume of data and time limitations. Yet, the sampling methodology usually cannot recognize rare or subtle abnormalities. AI removes the limitation by allowing analysis of complete data sets in real time. Through unsupervised learning algorithms, AI systems can examine patterns in historical data and raise alerts on deviations, which could be a pointer of risk. For example, unusual payment cycles, duplicate invoices, or payments just below approval limits are flagged automatically. Such systems recognize numerical, semantic, and contextual inconsistencies by NLP. Tools like Deloitte's "Argus," PwC's "Halo," and EY's "Helix" leverage AI to assess entire ledgers, supplier payments, and journal entries to identify outliers. For example, EY's Helix platform uses both structured and unstructured data analysis to uncover inconsistencies in revenue recognition practices and supplier payment behaviors [10]. According to EY, this has led to an increase in the detection of revenue manipulation and supplier fraud schemes during audits. Likewise, PwC's Halo suite combines the use of AI for risk analysis by studying deviations of ERP data from historical patterns. Such tools also include visualization dashboards that enable the auditors briefly to grasp the flagged items and drill into high-risk areas.

4.2. Continuous auditing and real-time monitoring

One of the groundbreaking uses of AI in auditing is continuous auditing—an activity which can facilitate continuous scrutiny of financial transactions in real time, instead of waiting until the end of the year. This evolution of converting itself from a periodic basis of audits to a continuous monitoring basis strengthens the ability of an organization to monitor risk on a dynamic basis and respond on a proactive basis. AI systems with enterprise-wide data bases can be used to scrutinize journal entries, bank reconciliations, and inventory levels on a real-time basis. When there are breaches of compliance or whenever there are irregularities, alerts are sent in real time, which helps the auditors or internal control teams respond quickly. This not only improves the timing of audits but even enhances the quality of financial reporting on a general basis.

KPMG's IBM Watson partnership assisted the company in crafting a cognitive audit platform by employing IBM Watson's capabilities of interpreting financial data and gauging risk in real-time, with the use of AI. Watson's NLP capability enables the system to search through emails, contracts, among other unstructured papers, for probable breaches of compliance, such as miss-stated revenue or backdated contracts. Real-time monitoring is especially advantageous in highly regulated business lines such as banking, pharmaceutical, and energy, where breaches of compliance can generate millions in fines. Auditing platforms based on AI can keep tabs on changes in regulation-based frameworks and make conclusions on the impacts of newly enacted legislation on a company's financial processes.

4.3. Case examples from AI-integrated auditing firms

The Big Four accounting firms—PwC, KPMG, EY, and Deloitte—made major bets on AI to increase the quality and efficiency of audits. Deloitte's "Argus" uses machine learning on journal entries in hopes of identifying riskier transactions across a client's ERP systems. Following the guidance of auditor attention on high-risk entries, Argus optimizes audits' resource allocation and detection power. EY's "Helix" platform facilitates audits by processing high volumes of structured and unstructured data. While grappling with a multinational manufacturing corporation, Helix identified vendor payment inconsistencies reflecting potential kickback schemes. Such discoveries were unveiled during a preliminary phase of auditing, which enabled EY to manage risks proactively. PwC's "Aurelia" uses AI to evaluate revenue recognition practices. Once, Aurelia detected irregular timing of revenue recognition between subsidiaries, which later emerged and indeed proved a material misstatement. Such early detection helped PwC's audit team narrow their focus and issue a stronger opinion. KPMG and IBM Watson developed one such system of AI-interpretive text-laden documents such as contracts, which enabled lease accounting audits under IFRS 16 to be carried out in a more effective way. Such a correction reduced manual lease terms reviews by 60%, with a better accuracy of compliance verification [11].

These scenarios illustrate how auditors are enabled by AI to draw richer conclusions, direct effort more precisely, and conduct higher-quality audits. AI is much more than a technical complement to accounting and auditing—it is a paradigm shift in the administration of such disciplines. For accounting, AI simplifies data input, improves report accuracy, and concentrates human effort on strategic analysis.

For auditing, AI presents full-population reviews, surveillance in real-time, and higher fraud detection through pattern recognition and Lapith such advances, there are responsibilities. Professionals of today must be able to understand and manage systems of AI, maintain ethical values, and bridge the skills gap by learning data analytics, algorithmic thinking, and system surveillance. Auditing and accounting's future is hybrid—in which coexist and blend human intellect and realize the end of efficiency, clarity, and credibility. Auditors and accountants who can adapt would be better positioned to thrive within a data-driven economy.

5. Challenges introduced by AI

The integration of AI into accounting and auditing promises transformative benefits—but it also introduces significant challenges. Three critical areas require careful consideration: data privacy and ethical concerns, the widening skills gap and workforce transformation, and risks to auditor independence.

5.1. Data privacy and ethical concerns

AI systems need high volumes of data—sometimes comprising sensitive personal and financial information. Using audit engagement data to train AI systems can be at odds with its intended use, posing legal and regulatory concerns. Companies may require express client consent, which would limit the variety of datasets [12].

Additionally, AI poses ethical risks related to lack of algorithmic clarity and biased outcomes. Most models are “black boxes,” which renders it challenging to explain why particular transactions are identified, making accountability even harder. Biases innate in training data sets can similarly

cause unfair or inaccurate outcomes, like biased credit ratings [12]. Strong governing frameworks and clear AI design are needed to manage these risks.

5.2. Workforce transformation and skills gap

The fast-evolving trajectory of AI is redefining the professional know-how demanded in accounting and auditing. Older bookkeeping and auditing skills are giving way to the need for data science, machine learning, and algorithmic interpretation expertise [11]. Professionals with combined financial and technical competencies are in short supply, giving rise to a widening gap. Education providers and professional bodies are compelled to redesign curricula in preparation for future accountants who can work in digital-first organizations. PwC, for instance, has redirected junior accountant training towards the management of AI systems rather than manual data input, spelling a wider redefining of future careers. Although the development presents opportunities for higher value advisory work, there are risks such as change resistance, job displacement fears, and the imperatives of lifelong reskilling [12].

5.3. Threats to auditor independence

Independence of auditors is essential in building reliance on financial reporting. But reliance on AI poses a set of new risks. Auditors' use of AI platforms built or licensed by their firms or even by the auditees themselves can be questioned in terms of lack of impartiality [12]. Excessive usage of AI output, with less professional skepticism, can diminish auditors' capability of challenging unusual results. Furthermore, auditors can be blind-sided by innovative tactics of fraudsters, who train their AI on historical fraud scenarios [13]. Independence can only be ensured by up-to-date standards of auditing, robust human-in-the-loop procedures, and independent verification of the behavior of AI systems [13]. While there are significant advances in terms of efficiency and insight brought on by AI, data privacy, ethical risks, skills gaps, and independence of auditors are important pointers towards a cautious adoption of AI. Governance, education, and refreshed statutory frameworks would enable the professions, on one hand, to realize the potential of AI, and on the other hand, retain faith, fairness, and accountability in financial service offerings.

6. Future trends

The future of accounting and auditing will be shaped by the dynamic interaction between humans and AI, and by the evolution of overarching regulations and professional standards. How well the profession aligns innovation with accountability and public trust will be shaped by these trends.

6.1. Human–AI collaboration models

Rather than replacing professionals, AI is increasingly seen as a complement to human expertise. Future accounting and auditing models will emphasize collaborative intelligence, where humans provide contextual understanding, ethical judgment, and strategic decision-making, while AI handles repetitive, data-intensive tasks. This partnership allows auditors and accountants to focus on higher-value activities such as advisory roles, fraud investigation, and forward-looking financial analysis [13].

For example, automated auditing systems will facilitate in-real-time observation of transactions, but there will be a need for manual auditors to interpret abnormalities and judge whether they indicate errors, fraud, or warranted variations. Correspondingly, accounting predictive analytics may

predict future cash flows or risks of revenue, but there will be a need for manual verification of assumptions and adding of industry-specific nuances. In the longer term, companies are likely to use hybrid approaches where automation is treated as a trusted aide, and professionals are ultimately accountable. This not only improves efficacy but also sustains professional judgment as the financial reporting's anchor [13].

6.2. Regulation and standard-setting of AI in accounting and audit

With increased adoption of AI, there will be a greater need for clear regulatory direction. Regulators and standard-setting organizations are likely to establish guidelines which will guarantee the integrity, clarity, and accountability of uses of AI in financial markets. Special focus is likely on data privacy, transparency of algorithms, the auditable nature of AI systems, and protections from bias. Global initiatives like the EU's Act and the U.S. SEC's focus on technology governance are examples of early movements towards establishing standards. As we look at accounting and auditing, professional organizations such as the International Federation of Accountants (IFAC) and the International Auditing and Assurance Standards Board (IAASB) are likely to issue guidance on AI oversight, documentation requirements, and the responsibility of auditors in relying on algorithmic outputs [13].

Furthermore, independent algorithm audits can become a complementary assurance service, such that the AI tools employed in financial reporting are in conformity with ethical and professional requirements. Educational institutions and training facilities will similarly evolve, integrating AI ethics, data management, and algorithm literacy into accounting curricula in preparation of the next generation of professionals.

The future of auditing and accounting will be shaped not by technology, but people, institutions, and regulators respond to it. Human-AI interaction frameworks will increase the value of the profession, and regulatory and standard-setting measures will preserve its credibility. Collectively, they will create a financial system that is more efficient, transparent, and resilient in the age of AI.

7. Conclusion

The emergence of AI has ushered in a paradigm change in accounting and auditing. Whereas, on the one hand, AI presents unimaginable possibilities of augmenting efficacy, precision, and depth, on the other hand, questions arise about ethics, credibility, and the ever-changing role of professionals. This However, we want to make sure that the phrase is used properly in each sentence.

As AI transforms the way businesses operate, one challenge confronting companies is how to rearrange work forces to meet new needs. However, there are too few professionals in data and information analytics, machine learning or information systems---compared with demand from industry employers. This problem of insufficient skills is widespread and requires a major effort in retrained personnel and updated curricula, despite the distress it brings to people whose jobs may be most threatened by automation. Realities of changeover and fears of job losses set limits to accounting and checking practices integrating with AIs.

Finally, we might say that the principle of auditors' independence meets new risks attendant on a world where AI becomes increasingly dominant. Like excessive reliance alone on technology might imperil auditors' professional skepticism which is the bedrock of their effectiveness. Which being so, we need not only have misgivings about lack of objectivity and fairness but also that there should be new professional standards and a regulation framework to ensure responsibility, integrity, and transparency in the use of AI. AI is both a facilitator and a disrupter of accounting and auditing

innovation. Its promise of enhanced efficiency, precision and understanding makes it a vastly desirable tool, but also brings ethical, practical and professional problems that cannot be disregarded. The profession has a challenge for the future: namely, to achieve balance between accepting technological change on one hand and preserving values like independence, trust and responsibility on the other which are the hallmark of auditing and accounting. Responsibly and cautiously handling AI can help the profession harness its values, manage its risks, and maintain itself as a moral keel for the world's financial system. This work has various limitations which are potential topics of future research. First, the paper is predominantly grounded on publicly known case studies and secondary reports of the Big Four auditors, and thus the results might not generalize to small- and medium-size practices, which are subject to more stringent resource constraints and differ in risk profiles. Second, the empirical evidence adduced is predominantly cross-sectional in design, and there is a need for longitudinal work based on tracing, over some period, the evolution of the capabilities of AIs and their organizational impacts. Third, the paper does not report the error rates or false-positive rates of individual tools, and the resulting trade-offs between the benefits of increased efficiency and the risks of compromising audit quality are left unexplored. Fourth, ethical and regulatory evolution advances quickly; conclusions based on current standards may soon be outdated.

Future studies might fill those gaps by: Carrying out field experiments or ethnographic research in SMPs to investigate customization approaches and barriers to AI adoption; creating standardized performance measures—in the form of, say, precision-recall curves of the anomaly detection modules—to facilitate comparative assessment across platforms; utilizing longitudinal designs to monitor the evolution of patterns of human–AI interaction and of auditor skepticism when prediction models are updated or re-trained; and studying emerging governance arrangements to determine their ability to maintain both public trust and auditor independence.

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