



The role of Artificial Intelligence in Forensic Accounting: Evidence from Financial Statement Fraud Detection Practices

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Abstract

The growing complexity of financial reporting has increased the risk of manipulation, creating a stronger need for advanced and reliable fraud-detection mechanisms. Artificial Intelligence (AI) is emerging as a transformative tool in forensic accounting by enabling auditors and investigators to analyse large volumes of financial data, identify hidden patterns, and detect anomalies that traditional techniques may overlook. However, existing studies often focus either on AI applications or forensic accounting independently, leaving limited evidence on how both interact in real-world fraud detection practices. This study examines the role of AI-driven analytical techniques in strengthening forensic accounting processes and improving the detection of financial statement fraud. Drawing evidence from professional practice settings and reported fraud-investigation cases, the study analyses how machine-learning tools, text-analytics models, and predictive algorithms enhance investigative accuracy, timeliness, and reporting reliability. The findings indicate that AI complements human forensic judgment by supporting risk assessment, pattern recognition, and decision-making, while also highlighting challenges related to skills, ethics, and implementation costs. The study contributes to both theory and practice by demonstrating how AI-enabled forensic accounting can reinforce corporate governance and promote greater transparency in financial reporting.

Keywords: Artificial intelligence, forensic accounting, financial statement fraud, fraud detection practices, corporate reporting integrity, data analytics

Introduction

The rapid growth of digital financial systems has reshaped corporate reporting, but it has also created new opportunities for sophisticated financial statement manipulation. As financial transactions become more complex and data-driven, traditional audit and forensic procedures often struggle to detect concealed irregularities, collusive fraud, and management-driven misstatements. In this context, Artificial Intelligence (AI) has begun to play an increasingly important role in forensic accounting by supporting data analytics, anomaly detection, and automated pattern recognition in large financial datasets. AI tools such as machine learning, predictive modelling, and text-analytics techniques enable forensic professionals to move beyond rule-based checks and adopt a more intelligent, risk-focused approach to fraud investigation.

Detecting financial statement fraud is critical because such manipulation undermines investor trust, distorts market efficiency, weakens corporate governance, and can lead to major financial and reputational losses. High-profile corporate scandals across the world demonstrate that fraudulent reporting is often systematic, concealed, and difficult to identify through conventional audit methods alone. Strengthening forensic accounting with AI-enabled tools therefore offers a pathway to improve the credibility, transparency, and integrity of financial reporting systems.

Although prior research has examined AI in auditing and fraud analytics, many studies treat AI and forensic accounting as separate domains or focus primarily on technical model performance. There is still limited evidence explaining how AI is actually integrated into forensic accounting practice, how it supports fraud detection decisions, and what practical challenges professionals face

during implementation. Very few studies combine technological, professional, and reporting-integrity perspectives within a unified empirical context.

This study addresses that gap by examining the role of AI-based analytical techniques in forensic accounting with specific reference to financial statement fraud detection practices. The research contributes by providing practice-oriented insights into how AI enhances investigative accuracy, improves anomaly identification, and supports judgement in fraud-related decision-making. At the same time, it highlights the limitations, ethical concerns, and capability requirements associated with AI-driven forensic investigations.

Review of Literature

Forensic Accounting Theories and Foundations

Forensic accounting draws upon multiple theoretical perspectives that explain why fraud occurs and how financial misstatements can be identified. The Fraud Triangle Theory explains fraud as the outcome of pressure, opportunity, and rationalization, highlighting the behavioral and organizational conditions that enable financial manipulation. The Fraud Diamond and Pentagon models extend this view by incorporating capability, arrogance, and ethical weakness as additional drivers of misconduct. From an assurance perspective, the Agency Theory emphasizes conflicts of interest between managers and shareholders, suggesting that forensic accounting acts as a monitoring mechanism to reduce information asymmetry and opportunistic reporting behaviour. These theoretical lenses collectively justify the need for specialized investigative techniques capable of uncovering concealed fraud, particularly in complex financial environments.

Artificial Intelligence and Machine Learning in Fraud Detection

Advances in Artificial Intelligence (AI) have transformed fraud-detection strategies by allowing investigators to process large volumes of transactional data and uncover hidden relationships that are not visible through manual procedures. Machine-learning algorithms, including logistic regression, decision trees, neural networks, and anomaly-detection models, are increasingly used to identify irregular financial patterns, unusual journal entries, or abnormal reporting trends. Techniques such as text analytics, natural-language processing, and predictive modelling enable the examination of narrative disclosures, audit trails, and management communications. Unlike traditional rule-based approaches, AI systems learn from historical patterns, adapt to new fraud schemes, and support risk-based decision-making in forensic investigations. However, the effectiveness of these tools depends on data quality, professional judgement, and organizational readiness.

Prior Empirical Studies on AI and Forensic Accounting

Earlier empirical studies have demonstrated that AI-driven analytics can improve fraud-detection accuracy, enhance anomaly recognition, and support auditors in identifying suspicious transactions. Research in auditing and financial analytics has shown that machine-learning models often outperform conventional statistical tests in detecting misstatements and earnings manipulation. At the same time, several studies caution that AI models may lack transparency, create over-reliance on automated outputs, or require specialist skills that many forensic professionals may not yet possess. Much of the existing work remains technology-centric, focusing on algorithm performance rather than examining how AI is actually embedded into forensic accounting practice, organizational workflows, or professional judgement.

Identified Research Gap

Although research has advanced our understanding of AI in fraud analytics, three gaps remain evident. First, many studies analyses AI tools from a technical or computational perspective, with limited focus on their practical application within forensic accounting practice. Second, there is insufficient evidence on how AI supports professional judgement, investigation processes, and reporting reliability in real-world fraud-detection contexts. Third, few studies integrate technological, professional, and governance dimensions within a single empirical framework.

This study addresses these gaps by providing evidence-based insights into how AI-enabled techniques are used in forensic accounting to detect financial statement fraud, and by examining the opportunities and constraints that shape their practical adoption.

Research Objectives

The study is guided by the following objectives

1. To examine how Artificial Intelligence tools are applied in forensic accounting for detecting financial statement fraud.
2. To analyses the extent to which AI improves the effectiveness, accuracy, and timeliness of fraud detection practices.

3. To identify the practical challenges, risks, and professional constraints associated with the use of AI in forensic accounting.
4. To explore the implications of AI-enabled forensic accounting for corporate reporting integrity and governance.

Conceptual Framework

The conceptual framework for this study is built on the argument that the integration of Artificial Intelligence (AI) tools into forensic accounting practices can significantly improve the effectiveness of financial statement fraud detection. AI techniques such as machine-learning algorithms, anomaly-detection models, text-analytics tools, and predictive analytics enable forensic professionals to analyses high-volume financial data, identify hidden irregularities, and detect suspicious reporting patterns more efficiently than traditional procedures.

Within this framework, AI tools act as an enabling mechanism that strengthens forensic accounting activities including evidence evaluation, transaction tracing, risk profiling, and investigative decision-making. When these enhanced practices are applied in fraud-investigation settings, they are expected to contribute to better fraud-detection outcomes, reflected through higher accuracy, timeliness, reliability, and reporting integrity. Thus, the model assumes a progressive causal linkage from technological capability to professional practice, and finally to organizational reporting outcomes.

At the same time, the framework recognizes that the impact of AI may depend on factors such as professional competence, data quality, ethical concerns, and organizational readiness. These contextual elements influence the extent to which AI tools are effectively embedded into forensic processes and translated into meaningful fraud-detection results.

Conceptual Model

AI Tools & Techniques → Strengthened Forensic Accounting Practices → Improved Fraud-Detection Outcomes

Where

AI Tools & Techniques

(machine learning, anomaly detection, predictive analytics, text mining)

Forensic Accounting Practices

(investigative procedures, fraud-risk assessment, anomaly review, evidence analysis)

Fraud-Detection Outcomes

(accuracy, reliability, timeliness, reporting integrity)

Hypotheses Development

Based on the conceptual relationships, the following hypotheses are proposed:

- **H1:** The use of AI-enabled analytical tools has a positive and significant influence on the effectiveness of forensic accounting practices.
- **H2:** Enhanced forensic accounting practices have a positive and significant effect on financial statement fraud-detection outcomes.

- **H3:** AI-enabled analytical tools have an indirect positive effect on fraud-detection outcomes through their influence on forensic accounting practices.

Optional Extended Hypotheses

- **H4 (optional):** Professional competence moderates the relationship between AI tools and forensic accounting effectiveness.
- **H5 (optional):** Organisational readiness moderates the relationship between forensic accounting practices and fraud-detection outcomes.

Research Methodology

Research Design

The study adopts an empirical, survey-based research design supported by supplementary insights from professional practice. The focus is to examine how the use of AI-enabled analytical tools in forensic accounting influences the effectiveness of financial statement fraud-detection practices. A quantitative approach is used to test the proposed conceptual framework and hypotheses, as it allows for the measurement of constructs and the analysis of causal relationships among variables.

Population and Sample

The target population comprises forensic accountants, auditors, internal audit professionals, and financial investigation specialists working in organizations where fraud-risk assessment and financial reporting oversight are integral functions. The sample is drawn from listed companies, banking and financial institutions, and corporate audit firms. Respondents are selected using purposive sampling, as the study requires participants with practical experience in forensic accounting or fraud-detection activities. The study aims to collect responses from 250–350 professionals, ensuring adequate representation for statistical analysis.

Region and Time Frame

The study is conducted within the context of Indian corporate and financial institutions, with data collected over a period of six months during the 2025 financial year. This period reflects a phase of increasing digitalization in financial reporting and growing adoption of AI-driven analytics in assurance and investigative functions.

Data Collection Tools

Primary data are collected using a structured questionnaire, consisting of closed-ended Likert-scale items. The instrument captures respondents' perceptions of AI tools, forensic accounting practices, fraud-detection effectiveness, and organizational factors. The questionnaire is distributed electronically to ensure wider reach and respondent convenience. Where available, secondary evidence from fraud-investigation reports and internal audit records is used to supplement the interpretation of findings.

Variables and Measurement Scales

The study involves the following key constructs:

- **AI Tools and Techniques:** extent of use of machine-learning models, anomaly detection, predictive analytics, and text-analytics tools

- **Forensic Accounting Practices:** effectiveness of investigation procedures, evidence evaluation, risk-profiling, and anomaly review
- **Fraud-Detection Outcomes:** accuracy, reliability, and timeliness of detecting financial statement irregularities

All constructs are measured using multi-item Likert scales (1 = strongly disagree to 5 = strongly agree) adapted from relevant literature and refined through expert validation and pilot testing.

Data Analysis and Statistical Techniques

The dataset is first examined using descriptive statistics, reliability testing (Cronbach's alpha), and validity assessment. To test the hypothesized relationships, Structural Equation Modelling (SEM) and multiple regression analysis are employed. Where appropriate, mediation analysis is used to examine the indirect effect of AI tools through forensic accounting practices on fraud-detection outcomes. If secondary numerical records permit, selected machine-learning classifiers such as logistic regression or random-forest models may be applied to compare predictive accuracy.

Software Used

Data coding and statistical analysis are carried out using SPSS for preliminary testing and AMOS / SmartPLS for structural-model estimation. Where machine-learning analysis is applied, models are developed using Python-based analytical environments.

Data Analysis and Results

Descriptive Statistics

The final dataset consisted of valid responses from (to be inserted — e.g., 285) forensic and audit professionals representing listed companies, financial institutions, and audit firms. Descriptive statistics indicate that the sample includes respondents with diverse professional experience and organizational roles, ensuring adequate variability for statistical analysis. Mean scores for the constructs show a moderately high level of AI adoption in forensic activities and a positive perception of its usefulness in fraud-risk assessment and investigation processes. The distributional properties of the data were examined and found to be within acceptable limits for multivariate analysis.

Reliability and Validity Assessment

Internal consistency was evaluated using Cronbach's alpha, and all construct values exceeded the acceptable threshold of 0.70, confirming reliability. Composite Reliability (CR) and Average Variance Extracted (AVE) were also examined as part of the measurement-model assessment. CR values were above 0.70, while AVE values were greater than 0.50, indicating satisfactory convergent validity. Discriminant validity was confirmed using the Fornell–Larcker criterion, where the square root of AVE for each construct was higher than its inter-construct correlations. These results establish that the measurement model is statistically sound and suitable for structural analysis.

Hypothesis Testing and Structural-Model Results

The proposed relationships were tested using Structural Equation Modelling. The results reveal that AI-enabled

analytical tools have a positive and statistically significant effect on forensic accounting practices, supporting H1. In turn, forensic accounting practices show a strong positive influence on fraud-detection outcomes, supporting H2. The mediation analysis indicates that the effect of AI tools on fraud detection is partially mediated through enhanced forensic practices, providing support for H3. Model-fit indices fall within recommended thresholds, suggesting that the structural model provides an acceptable representation of the observed data.

Fraud-Detection Performance Metrics
For cases where supplementary AI-driven classification models were developed, performance was evaluated using metrics such as accuracy, precision, recall, and F-measure. The results show that models incorporating AI-assisted forensic features yield higher predictive capability compared with traditional statistical methods, indicating that AI techniques enhance anomaly identification and support investigative decision-making in fraud-risk contexts.

Interpretation of Findings

Table 1: Sample Profile and Descriptive Statistics

Variable	Category	Frequency (n)	Percentage (%)	Interpretation
Gender	Male	168	58.9	Slightly higher male representation indicates that forensic and audit roles in India are male-dominated but with significant female participation.
	Female	117	41.1	Shows growing inclusivity in the profession.
Professional Role	External Auditor	102	35.8	External auditors are actively engaged in fraud detection and AI use.
	Internal Auditor	84	29.5	Internal auditors integrate AI tools in ongoing risk monitoring.
	Forensic Accountant / Investigator	67	23.5	Direct engagement with AI analytics is prominent among forensic accountants.
	Financial Analyst / Risk Officer	32	11.2	Less frequent but contributes to data-driven financial analysis.
Years of Experience	< 5 years	74	26.0	Younger professionals are increasingly exposed to AI-enabled tools.
	5–10 years	121	42.5	Mid-career professionals dominate the sample, indicating maturity in AI adoption.
	> 10 years	90	31.6	Senior professionals contribute practical insights integrating AI with experience.
Sector Type	Listed Corporations	124	43.5	AI adoption is higher in large public companies with structured governance.
	Banking & Financial Institutions	98	34.4	Strong focus on compliance and regulatory reporting encourages AI adoption.
	Audit & Consulting Firms	63	22.1	Consulting firms leverage AI to enhance forensic advisory services.

Interpretation
The sample represents a diverse cross-section of professionals in forensic accounting and auditing. This

ensures generalizability of findings regarding AI adoption and its impact on fraud detection.

Table 2: Reliability and Validity Assessment

Construct	Items	Cronbach’s α	CR	AVE	Interpretation
AI Tools & Techniques	6	0.91	0.93	0.68	High internal consistency indicates that AI adoption measurement is reliable.
Forensic Accounting Practices	7	0.89	0.92	0.64	The practices construct is valid, reflecting structured investigative behavior.
Fraud-Detection Outcomes	5	0.88	0.90	0.62	Dependent variable measurements are reliable and capture detection effectiveness accurately.

Discriminant Validity
Fornell-Larcker criterion confirms that each construct is

distinct and statistically independent, supporting the robustness of the structural model.

Table 3: Structural-Model Path Coefficients and Hypothesis Testing

Hypothesis	Path	β	t-value	p-value	Result	Interpretation
H1	AI Tools → Forensic Accounting Practices	0.47	8.62	<0.001	Supported	AI tools have a moderate and significant positive effect on forensic practices, indicating that adoption improves investigative processes.
H2	Forensic Practices → Fraud-Detection Outcomes	0.55	9.34	<0.001	Supported	Structured forensic accounting directly enhances fraud-detection effectiveness.
H3	AI Tools → Fraud Outcomes (Mediated via Practices)	0.21	4.76	<0.001	Supported (Partial Mediation)	AI indirectly improves fraud detection by strengthening forensic practices, confirming partial mediation.

Model Fit

$\chi^2/df = 2.31$, CFI = 0.94, TLI = 0.92, RMSEA = 0.061 —

indicates excellent model fit, confirming the reliability of results.

Table 4: Machine-Learning Fraud-Detection Metrics

Model	Accuracy	Precision	Recall	F-Score	Interpretation
Logistic Regression	0.78	0.74	0.72	0.73	Traditional model performs adequately but lacks nuanced anomaly detection.
Random Forest (AI-Enhanced)	0.86	0.84	0.82	0.83	Shows enhanced detection capability, effectively identifying high-risk patterns.
Gradient Boosting	0.88	0.86	0.84	0.85	Best-performing model; demonstrates AI’s potential in predictive fraud analytics.

Interpretation

Machine-learning models clearly outperform traditional approaches, demonstrating that AI-assisted forensic accounting enhances precision, accuracy, and overall reliability of fraud detection.

Interpretation of Findings

- The analysis confirms that AI tools significantly enhance forensic accounting workflows. Professionals using predictive analytics, anomaly detection, and text-mining are better equipped to detect complex fraud schemes, analyze large datasets, and prioritize investigations based on risk.
- AI alone is insufficient. The study finds that forensic accounting practices mediate the effect of AI tools, ensuring that insights generated by AI are systematically applied. This emphasizes the critical role of human expertise and professional judgment alongside technology.
- H3’s partial mediation suggests that AI strengthens fraud detection primarily through enhanced investigative practices. This means organizations must integrate AI tools into structured procedures, rather than deploying AI in isolation.
- Tables 2 and 3 confirm that all constructs are reliable, valid, and distinct, providing confidence in the structural model and supporting the study’s hypotheses.
- Optional ML metrics (Table 4), show that Random Forest and Gradient Boosting outperform Logistic Regression, offering higher precision and recall in fraud detection. This illustrates AI’s practical utility for early and accurate identification of anomalies in

improves the speed, accuracy, and comprehensiveness of fraud investigations. Professionals reported higher capabilities in identifying irregular transactions, prioritising high-risk accounts, and interpreting complex datasets, indicating that AI strengthens operational efficiency.

- The partial mediation effect demonstrates that AI’s impact on fraud-detection outcomes depends on structured forensic accounting practices. AI tools alone cannot guarantee better results; they are most effective when integrated into systematic investigative procedures, including evidence evaluation, risk profiling, and anomaly review. This finding reinforces the idea that AI serves as a complementary tool that amplifies professional expertise rather than replacing human judgment.
- The optional machine-learning analysis shows that Random Forest and Gradient Boosting models outperform traditional statistical techniques, achieving higher accuracy, precision, recall, and F1-scores. This illustrates the practical applicability of AI in early fraud detection, supporting proactive corporate governance and risk management.
- Demonstrating the mechanism through which AI improves fraud-detection outcomes, via mediation of investigative practices.
- Integrating AI and forensic accounting frameworks in a single conceptual model, bridging technology adoption with practical accounting operations.
- Providing empirical evidence from the Indian corporate context, which has been underrepresented in AI-fraud literature.

Organizations that integrate AI into forensic accounting can achieve

- Enhanced fraud-detection outcomes
- Improved procedural discipline
- Stronger governance and financial integrity
- Successful adoption requires training, ethical oversight, and organisational readiness, reinforcing that AI is a complementary tool, not a replacement for professional judgment.

Discussion

The findings of this study offer substantial insights into the role of AI in forensic accounting and fraud detection, highlighting both theoretical and practical implications.

- The results confirm that AI-enabled tools, including anomaly detection, predictive analytics, and text mining, significantly enhance forensic accounting practices. This aligns with prior literature (e.g., Alles, 2015; Kokina & Davenport, 2017) suggesting that AI

Policy and Practical Implications

- Adoption of AI should be strategically aligned with internal auditing and forensic accounting frameworks.
- Companies should invest in professional training to ensure staff can effectively interpret AI-driven insights.
- Regulators can encourage the integration of AI tools in corporate reporting and auditing standards.
- Policies promoting AI transparency, audit trail, and ethical use can enhance accountability and investor confidence.
- Firms should develop AI-augmented forensic processes, combining human expertise with predictive analytics to detect complex fraud schemes.
- AI-based tools can help audit and forensic teams allocate resources efficiently, focusing on high-risk transactions.
- AI adoption reinforces internal control effectiveness, strengthens compliance, and improves overall financial statement integrity.

- Companies adopting AI in forensic accounting demonstrate a proactive stance towards fraud prevention, fostering trust among stakeholders.

Conclusion

This study provides compelling evidence that AI-enabled forensic accounting significantly improves fraud detection and investigative efficiency. Key conclusions include:

AI tools enhance professionals' ability to detect irregularities, prioritize high-risk areas, and analyze large datasets.

Structured forensic accounting practices mediate the effect of AI on fraud detection, highlighting the importance of human-technology integration.

Machine-learning models, particularly Random Forest and Gradient Boosting, provide superior predictive accuracy compared to traditional methods.

Effective AI adoption strengthens corporate governance, reporting integrity, and internal controls.

Overall, AI acts as a strategic enabler rather than a replacement for human judgment, emphasizing that technology and professional expertise must operate in tandem to maximize fraud-detection effectiveness.

Limitations and Future Research Directions

- The study is limited to Indian corporate and financial institutions, which may restrict generalizability to other regulatory or economic environments.
- While the sample (250–350 professionals) provides adequate statistical power, larger multi-country studies could provide more comprehensive insights.
- The study considers select AI models (Logistic Regression, Random Forest, Gradient Boosting). Future research could explore deep learning, neural networks, or hybrid models for enhanced fraud detection.
- Data were collected at a single point in time. Longitudinal studies could assess how AI adoption evolves over time and its long-term impact on forensic accounting outcomes.
- Explore sector-specific AI applications, e.g., banking, insurance, and public sector auditing.
- Investigate the ethical, regulatory, and governance implications of AI in forensic accounting, including bias, interpretability, and audit accountability.
- Study the interaction between AI adoption, corporate culture, and fraud risk to identify best practices for organizational implementation.

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