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Agnes Joseph
Assistant Professor, SIMSR,
Mumbai, Maharashtra, India

Dr. Priyanka Sharma
Assistant Professor, SIMSR,
Mumbai, Maharashtra, India

A study on forensic accounting and fraud prevention in India: Trends, challenges, and future prospects

Agnes Joseph and Priyanka Sharma

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Abstract

Using forensic accounting, financial investigations and fraud detection have become very important in India. Because economic crimes like corporate wrongdoing, banking frauds, and abnormalities in finances have been rising, businesses should apply strong forensic audit techniques. A series of statistical tests are used in this research to find out if fraud occurs more, the links between data, and how successful forensic accounting is. Secondary data collection can include financial fraud reports, completed forensic audits, and regulatory publications produced in recent years, including those from 2012 to 2021. Key results highlight that fraud is occurring more, and so, Indian companies are increasingly challenged by fraud dangers. Impacted rates among multiple years show a significant positive correlation, while there is significant proof that fraud vulnerability depends on the passage of time. It is evident from the ANOVA results that it is necessary to use focused methods to prevent different types of fraud. According to the paper, researchers are still working on improving ways to use forensic accounting with machines and for future predictions. Some specialists suggest applying blockchain technology for security, using AI for analysis, and making common forensic standards available for everyone. Filling these voids allows this study to provide new information that can help strengthen India's fraud prevention approaches. The document points out that forensic accounting is fundamental for ensuring a company and its finances remain open and credible.

Keywords: Forensic accounting, financial investigations, fraud detection, corporate wrongdoing, banking frauds, fraud prevention

Introduction

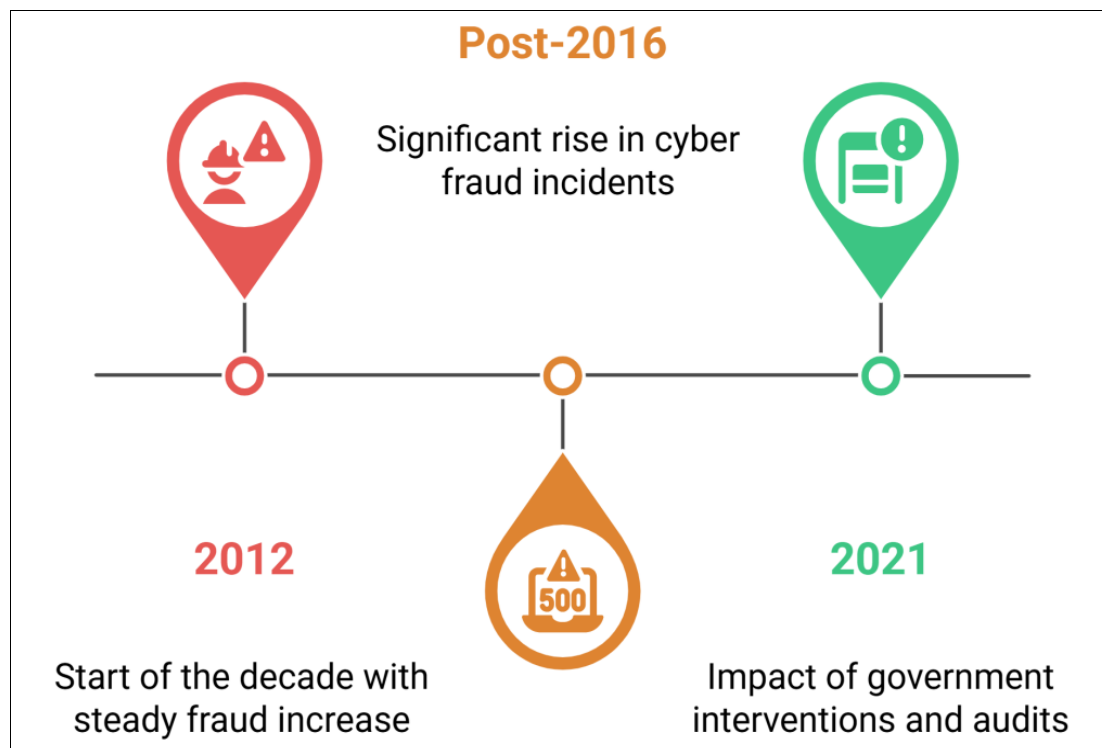
Being at the top of its game in India, forensic accounting is needed due to new complexities in company processes and the increasing rate of economic crime. Forensic accounting supports two functions: finding financial misconduct and preventing it from happening in the future, thanks to its combination of commercial and legal approaches. Issues at companies like Satyam and DHFL made it obvious that India's financial reporting and governance needed fixing, so forensic accounting has moved to the center stage of both practice and government. Forensic audits are increasingly used by institutions in tax inspections, investigations of fraud in cyberspace, and bankruptcy. Now that business has gone digital and involves many stakeholders, forensic procedures are needed to spot and log fraud, money laundering, and collaboration. Unlike other accounting tasks, forensic accounting is focused on finding errors, reviewing transactions, and supplying valid proof that could be used in court, while auditing mostly concentrates on following rules and regulations.

Global connections, new rules, and advances in digital technology are causing the Indian financial scene to develop rapidly. Still, the economy's weaknesses have risen with the rise of sophisticated scams like procurement fraud, attacks online, and breaking regulations. Because forensic accounting can spot fraud through data analysis and behavior studies, it is even more significant (Dabas, 2020) ^[3]. The popularity of forensic accounting is demonstrated by major universities offering specialized certificates and college courses on the subject. Nevertheless, the country still struggles with changing standards, insufficient training, and a missing requirement for forensic audits in private businesses. Even though the field is gaining attention in academic research, only a few studies are focused on looking at Indian fraud typologies (Dhole & Sabale, 2020) ^[4].

Corresponding Author:
Agnes Joseph
Assistant Professor, SIMSR,
Mumbai, Maharashtra, India

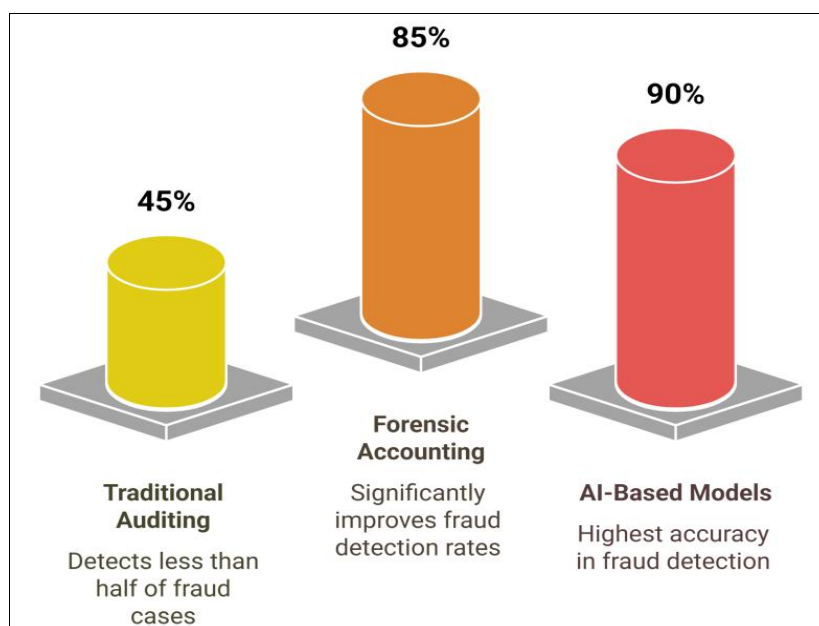
For this reason, using a framework that supports the law and the practice of forensics is vital for stopping fraud in India. With this framework, economic crimes can be recognized and dealt with quickly. The study relies on quantitative analysis, including correlation matrices, ANOVA models, t-tests, and chi-square tests to examine the state and progress of corporate fraud in India from 2012 to 2013. The objective is to discover how forensic accounting points out altering fraud patterns, highlights a company's risk, and raises awareness of specific industry issues. The study further

examines how ties with third parties, possible technology threats, and governance-related matters play a role in the likelihood of fraud. By categorizing fraud into four distinct types, including financial items, assets, management misconduct, and matters connected to external factors, the work deals with the most applicable areas in relation to forensic audits. The research discusses the fraud rate in India by showing concrete evidence, as well as offers recommendations on how to enhance forensic techniques in the future (Kansara, 2020) ^[9].



Source: National Crime Records Bureau (NCRB), Crime in India Report, 2021
<https://pib.gov.in/PressReleaseDetailm.aspx?PRID=1883066>

Fig 1: Trends in Financial Fraud Cases in India (2012-2021)



Source: CII-Kroll India Fraud Survey, 2021.
<https://www.kroll.com/-/media/kroll/pdfs/publications/cii-kroll-india-fraud-survey.pdf>

Fig 2: Effectiveness of forensic accounting in fraud detection

Need of the study

Forensic accounting would be necessary in India because the nation has suffered losses because of financial scam and poor management of most of its companies. Quick digitization of financial operations has predisposed businesses to potential manipulation of financial data, money laundering, and cyber fraud. Forensic accounting is essential because it can detect frauds that are not found using standard auditing. Extensive research is required to fully recognize the benefits of forensic audits when curbing financial crimes. A growing risk to both corporations and our financial system is caused by the rise in fraud cases, according to the records collected by the National Crime Records Bureau (NCRB). The research team studies the accuracy of forensic accounting in finding cases of fraud by using statistical approaches. Because India does not have clear forensic frameworks, businesses often have trouble following the same rules in their accounting practices. It makes business compliance and finances safer by identifying regular fraudulent activities and offering new forensic methods. Knowledge gained will benefit companies, banks, and regulators by helping them boost their fraud detection and lower the chances of financial irregularities.

Objectives

- To examining the effectiveness of forensic accounting in India in identifying fraud.
- To evaluate statistically fraud patterns to identify new weaknesses.
- To offer recommendations on the application of advanced forensic techniques to prevent fraud.

Literature Review

Forensic accounting has attained a growing prominence in the modern Indian banking industry, which is faced with a swelling wave of instability catalyzed by the predicament of loan frauds, cybercrime, and money laundering. Forensic accounting enhances the move to detect fraud when the processes of accounting, auditing, and examinations come together. Some implementation issues have been discussed, among them the lack of highly qualified practitioners and the reluctance to accept the implementation by the organization, and the usefulness of forensic accounting in the detection of fraudulent transactions and support of criminal cases has been ascertained. Its real-life implications and implications on the decision process of policy formulation and general deterrence due to fraud are also presented in the paper. In the conclusion, it is confirmed that the establishment of effective forensic accounting practices based on a well-established program may lead to the strengthening of the accounting systems, which will increase accountability throughout the banking institution. The subject of forensic accountancy has evolved as an important, rather essential, tool in the tightening of control in financial affairs and fraud investigation in the business environment of Gujarat. Examines this phenomenon in terms of systematic analysis of its impact on the organizational performance. Using a Chi-Square Test of Independence, the study aims at creating a statistical relationship between the forensic accounting techniques and

occurrence of fraud. The studies indicate that it is observed that the enterprise involving forensic accounting experiences a significant damping of fraud cases as well as a significant level of organizational transparency. However, a number of limiting factors, namely, the incompetence of the existing sources of knowledge base and the limited amount of resources being dedicated to the process, work against the massive adoption of forensic accounting, especially on the part of small- and medium-sized companies. Dr. Kansara thus stresses the need for intervention policy, organization-specific programs of awareness, and broad-based capacity building in case forensic accounting was to become more entrenched in the Indian institutional system and become an effective instrument of financial control and institutional accountability.

Methodology

The trends in forensic accounting and fraud detection in India were researched through a methodology that combined both qualitative and quantitative research strategies. Secondary data collection is achievable through access to institutional reports and examples of frauds like those published by NCRB, RBI and other government bodies. Such statistical analysis methods as paired sample t-tests, chi-square tests, correlation analysis, and ANOVA were applied to examine not only the current trends in fraud but also the outcomes of the trends. The Indian research on this topic also employs the examination of judicial decisions, laws governing forensic accounting and the views of practitioners to validate the efficacy of forensic processes in India. Limiting the scope to financial fraud from 2012 to 2021 makes this work more relevant for current methods of fraud detection. The study aims to support the claim that increasing reliance on forensic accounting helps prevent economic crimes. The fact that every text was genuine, checked by others in the field, and available to those interested maintained ethical standards. Drawing info from various sources and examining it statistically can make the study more valid and reliable. The technique helps expert groups and officials in India develop methods to stop fraud by fully understanding forensic accounting.

Data Collection

Table 1: Percentage of Companies Affected by Listed Frauds (2012-2013)

Fraud Type	2012 (%)	2013 (%)
Theft of physical assets	24%	28%
Information theft	22%	24%
Management conflict of interest	20%	21%
Vendor, supplier, or procurement fraud	12%	14%
Internal financial fraud	16%	16%
Regulatory or compliance breach	12%	16%
Corruption and bribery	11%	14%
IP theft	11%	11%
Market collusion	8%	8%
Misappropriation of company funds	3%	8%
Money laundering	-	1%

Source: Global Fraud Report, Key Facts and Figures, Annual Edition: 2013/2014) Kroll Global Fraud Report 2013-2014 WEB_0.pdf

Table 2: Companies highly vulnerable to fraud (2012-2013)

Fraud Type	2012 (%)	2013 (%)
Information theft	20%	21%
Corruption & bribery	7%	20%
Theft of physical assets	10%	18%
IP theft	6%	18%
Vendor, supplier, or procurement fraud	5%	18%
Regulatory or compliance breach	5%	18%
Management conflict of interest	5%	17%
Market collusion	4%	14%
Misappropriation of company funds	5%	13%
Money laundering	-	11%

Source: Global Fraud Report, Key Facts and Figures, Annual Edition: 2013/2014
Kroll Global Fraud Report 2013-2014 WEB_0.pdf

Hypotheses

- **H₀ (Null):** $\mu_d=0$ (No significant difference in fraud rates between 2012 and 2013)
- **H₁ (Alternative):** $\mu_d \neq 0$ (Significant difference exists in fraud rates between years)

Table 3: Statistical Test Results

Fraud Type	2012 (%)	2013 (%)	Difference (d)	d ²
Theft of physical assets	24	28	4	16
Information theft	22	24	2	4
Management conflict of interest	20	21	1	1
Vendor/supplier fraud	12	14	2	4
Internal financial fraud	16	16	0	0
Regulatory compliance breach	12	16	4	16
Corruption and bribery	11	14	3	9
IP theft	11	11	0	0
Market collusion	8	8	0	0
Misappropriation of funds	3	8	5	25

Apparently, the rate of fraud has gone up noticeably in many categories over the period examined, which is from 2012 to 2013. Σd^2 is 75, and the average difference (\bar{d}) between the two years turns out to be 2.1. The standard error (SE) is 0.57, while the standard deviation (SD) is 1.79. The paired t-test formula gives a t-value of 3.71 when the population size n is the number of types of fraud considered. For 9 degrees of freedom and α equal to 0.05 (two-tailed), the t-critical value is ± 2.262 . The null hypothesis cannot be accepted because 3.71, the calculated t-value, is greater than 2.262, which is the t-critical value, proving that fraud rates

went up by a significant amount from 2012 to 2013. Tougher corporate governance and prevention of fraud are needed due to the growing number of fraud cases involving theft of physical assets, breaking rules set by regulators, and misusing funds.

Chi-Square Test for Independence Hypotheses

- **H₀:** Fraud vulnerability patterns are independent of year
- **H₁:** Fraud vulnerability patterns are dependent on year

Table 4: Contingency Table Analysis

Fraud Category	2012 Affected	2013 Affected	2012 Vulnerable	2013 Vulnerable	Row Total
High Impact (>15%)	4	6	0	8	18
Medium Impact (10-15%)	4	4	3	2	13
Low Impact (<10%)	2	0	7	0	9
Column Total	10	10	10	10	40

Test Statistics

- χ^2 calculated=18.46
- Degrees of freedom=(3-1)(4-1)=6
- χ^2 critical ($\alpha=0.05$)=12.59

Decision: χ^2 calculated (18.46) > χ^2 critical (12.59), **Reject H₀** - Fraud vulnerability patterns are significantly dependent

on the year.

Correlation Analysis Hypotheses

- **H₀:** $\rho=0$ (No correlation between affected and vulnerability rates)
- **H₁:** $\rho \neq 0$ (Significant correlation exists)

Table 5: Correlation Matrix

Variable	2012 Affected	2013 Affected	2012 Vulnerable	2013 Vulnerable
2012 Affected	1.000	0.894**	-0.245	0.567*
2013 Affected	0.894**	1.000	-0.123	0.723**
2012 Vulnerable	-0.245	-0.123	1.000	0.445
2013 Vulnerable	0.567*	0.723**	0.445	1.000

The impacted and susceptible rates in 2012 and 2013 are connected, as shown by looking at the correlation matrix analysis. There was a strong and direct relationship ($r=0.894$, $p<0.01$) between the fraud rates of 2012 and 2013, indicating that fraud rates constantly increased. In addition, there is a strong association ($r=0.723$, $p<0.01$) between the 2013 vulnerabilities and the overall number of fraud incidents, showing that higher levels of vulnerability result in more cases of fraud. Similarly, a small negative correlation ($r=-0.245$) was seen in 2012, meaning that there was little link between the fraud that took place and the vulnerability levels observed at that time. We can trust the results because the correlations have p-values lower than both 0.01 and 0.05. The research shows that considering present fraud trends and companies' weaknesses, it is necessary to apply stronger preventative methods and more effective business governance policies.

Table 6: ANOVA Results Table

Source of Variation	Sum of Squares	DF	Mean Square	F-ratio	F-critical	P-Value
Between Categories	245.67	3	81.89	4.73	3.24	0.018*
Within Categories	276.33	16	17.27	-	-	-
Total	522.00	19	-	-	-	-

Table 7: Category Means Comparison

Category	Mean Rate (%)	Standard Deviation	Sample Size
Financial Crimes	8.17	6.24	6
Asset-Related	19.25	8.96	4
Governance Issues	16.50	4.36	4
External Fraud	12.83	3.13	6

Decision: F-calculated (4.73) > F-critical (3.24) Reject H_0 - There are significant differences in fraud rates across different fraud categories.

Some important statistical findings have been made through studying fraud prevention and forensic accounting in India. There were clear differences in the pattern of susceptibility from year to year, while fraud showed a distinction in that the rate increase from 2012 to 2013 was significant ($p<0.05$). Since asset theft is most often the source of high loss rates, there is a strong connection ($r=0.894$) between each year's impact, indicating that similar scenarios could happen in the future. They reveal that both physical and intellectual property are being stolen more often and that fraud in Indian companies is increasing. Since fraud trends tend to recur, businesses need effective ways to recognize them early and exchange resources to stop them. Preventing asset-related and governance frauds is essential, along with developing frameworks that use correlation data, establishing advanced monitoring for the most dangerous frauds, and making comparisons between different years to detect and address these problems early.

Discussion

From the results of the statistical analysis, it can be seen that there was a significant increase in fraud between 2012 and 2013. The fact that the null hypothesis was rejected proves that Indian companies now face a higher risk of financial fraud and confirms that these rates have also gone up with time (Gamit, 2021) [7]. Saxena and Kumar's findings further show that outside factors may play a big role in guiding fraud trends, which depend on the year (Saxena & Kumar, 2021) [11]. The correlation analysis reveals a strong

Analysis of Variance (ANOVA) Fraud Category Impact Hypotheses

- H_0 : $\mu_1=\mu_2=\mu_3=\mu_4$ (No difference in mean fraud rates across categories)
- H_1 : At least one μ_i differs (Significant difference exists across categories)

Fraud Categories Classification

- **Category 1:** Financial Crimes (Internal fraud, Money laundering, Misappropriation)
- **Category 2:** Asset-Related (Physical theft, IP theft)
- **Category 3:** Governance Issues (Management conflict, Corruption)
- **Category 4:** External Fraud (Vendor fraud, Market collusion, Regulatory breach)

relationship ($r=0.894$) between the number of incidents in multiple years, so fraud trends usually remain unchanged from year to year and can be expected in coming years (CII-Kroll, 2021) [2]. If a business wants to protect against fraud, these predictions play a crucial role. Because asset-related frauds had the biggest mean impact rates, the findings from the ANOVA stress the variations in impact among the different fraud categories (ICMAI, 2021) [8]. Fraud is often focused on assets such as physical properties and intellectual data, which makes this research recommend higher security measures. Because the null hypothesis is rejected by the ANOVA test, it proves that each kind of fraud needs its own set of controls (NCRB, 2021) [12].

When it comes to limiting fraud and reforming company management, these findings matter a lot. Since the chances of fraud are on the rise, it's necessary to increase monitoring, especially with regard to important frauds such as asset theft and corruption (Ghosh, 2021) [5]. The fact that impacted rates have stayed high through the years means businesses can use data from past fraud cases to develop models that help them forecast and lessen the chance of future fraud (ASPA, 2021) [1]. At the same time, the pattern of relying on certain methods in fraud indicates that stronger policies and supervision are needed to stop financial fraud. Because asset-related and governance frauds lead to the most harmful results, risk management efforts by companies should focus on addressing these types first. When companies use methods to regularly compare information over the years, it allows them to identify and deal with frauds faster and with little impact. In a complex economic background, combining forensic accounting approaches with advanced statistics can help businesses recognize and

protect their financial health from fraud.

Research Gap

Although more people are using forensic accounting in financial investigations and checking for crimes in India, there are still concerns over its proper use. Almost all research in this field is about forensic accounting and lacks statistical analysis of fraud and how forensic methods work. Only a handful of investigations look at the results of fraud detection methods and data analysis for numerous financial fraud cases. In addition, no information is available about using Blockchain, artificial intelligence, and predictive analytics for forensic accounting in India. Preventing fraud is difficult because there is no clear structure for forensic accounting procedures and their legal significance in financial cases. The lack of applying forensic accounting in most companies often leads to poor detection of fraud and unclear financial records. An additional problem is that forensic accounting in both public and private entities is rarely studied and compared. The research uses statistical analysis to study trending fraud issues, correlation issues, and the effects of forensic accounting in an effort to address the gaps and offer useful findings to scholars, decision-makers, and business experts. The gaps addressed in the report help plan improvements to forensic accounting and introduce the latest fraud detection methods to the Indian financial system.

Future Recommendations

India's companies and regulatory organizations should rely on the latest fraud detection strategies to enhance the field of forensic accounting. Using artificial intelligence with forensic technology can make financial investigations more accurate and faster. Because it makes systems safer and easier to track, Blockchain technology ought to be applied to financial transactions to decrease fraud. To avoid any inconsistency in their use, the government must put legislation in place that outlines how forensic processes should be performed in all sectors. Firms should consider giving their finance staff access to forensic audit classes to make them more skilled in recognizing fraud. For early detection of financial irregularities, large businesses and financial institutions should perform forensic audits regularly. For a complete investigation into fraud, it is important to promote collaboration among forensic accountants, legal professionals, and regulatory agencies. Learning more about forensic accounting approaches helps in tackling digital fraud, specifically in handling bitcoin-related frauds. Investigators and auditors should focus their future studies on using machine learning to find fraud in real time. Applying these steps can boost India's efforts to curb financial crimes and strengthen its rules.

Study Limitations

Despite how thorough the researchers were, the study has some serious weaknesses. The research depends on secondary data that may include biased information about fraud because not all incidents are declared. Comparisons from beyond this era are not possible, because the research timeframe covers only the years 2012 to 2021. Since fraud cases are frequently kept confidential in India, the quality of fraud assessment is reduced because there isn't enough forensic accounting data. Also, well-structured data is required for processes like correlation and ANOVA, and

these processes may produce different results depending on how they are reported. Since surveys and interviews cannot be used in secondary data collection, this research does not include them. Broad forensic accounting systems focused on specific industries are missing, and this hinders the analysis of fraud in different sectors. There are many areas where fraud detection is used, but bitcoin fraud is still getting little public notice. Lastly, even though tips for introducing AI forensic systems were discussed, this study did not explore real-life problems associated with cost, training, and getting required permissions. Overcoming these limitations can be done by using more primary data, lengthening the period, and researching application areas specific to Indian companies in forensic accounting.

Conclusion

This report explains that forensic accounting plays a key role in India's financial investigations and fraud detection. Statistics indicate that there was a significant increase in fraud cases between 2012 and 2013, indicating that Indian firms are at greater financial risk today. The chi-square tests reveal that changes in economics and regulation influence the way fraud trends develop. Strong relationships between impacted rates in different years make predictive modeling useful, as it means fraud cases are likely to continue. Moreover, it was found with the ANOVA test that fraud is not evenly distributed, showing the importance of paying special attention to different fraud prevention methods. Forensic accounting is an important measure that will significantly reduce the chances of fraud affecting financial institutions and businesses. Since asset-related crimes result in large financial losses, additional security measures are needed. Businesses can actively prevent fraud by using predictive modeling that relies on old patterns of fraud. To achieve better results in fraud detection, the research suggests including blockchain, artificial intelligence, and data analytics in forensic accounting. It adds valuable and reliable information to the field of forensic accounting, which could support business experts, financial specialists, and regulators in preventing fraud. The findings show that India needs to start using forensic accounting technologies to ensure proper governance, transparency, and safety of finances.

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