

IMPACT OF FORENSIC ACCOUNTING ON FRAUD DETECTION IN NIGERIAN DEPOSIT MONEY BANKS

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ABSTRACT

This study investigated the impact of forensic accounting on fraud detection in deposit money banks within Benue State, Nigeria, utilizing a cross-sectional research design. The population consisted of 145 employees from three deposit money banks operating in Makurdi Metropolis, Benue State. A census sampling technique was employed, and data were collected using a structured questionnaire validated through content and construct validity methods, achieving a Cronbach's Alpha reliability coefficient of 0.872. The study employed binary logistic regression to estimate the impact of forensic accounting variables on fraud detection. The findings reveal that Engagement of Forensic Accountants (EFA) significantly enhances fraud detection, with a coefficient (B) of 1.671 (SE = 0.414), Wald statistic of 9.830 ($p < 0.001$), and odds ratio (Exp(B)) of 3.911. This implies a 291.1% increase in the likelihood of fraud detection with the engagement of forensic accountants, underscoring their pivotal role in improving financial transparency and accountability. Conversely, Litigation Support Skills (LSA) did not show a statistically significant impact on fraud detection (B = -0.541, SE = 0.378, $p = 0.152$), suggesting limited effectiveness in this context. However, Forensic Investigative Professional Skills (FIS) demonstrated a significant positive impact (B = 1.203, SE = 0.406, $p = 0.015$), increasing the likelihood of detecting fraud by 104.4%. The study recommends that banks prioritize the integration of forensic accountants into internal audit processes to bolster fraud detection capabilities effectively. Furthermore, continuous professional development in forensic investigative techniques should be emphasized to enhance staff skills and readiness in identifying and mitigating complex fraud schemes.

Keywords: Forensic Accounting, Fraud Detection, Accountants, Deposit Money Banks, Benue, Nigeria.

INTRODUCTION

The term 'forensic accounting' was initially introduced in written form by Maurice E. Peloubet in 1946, during his tenure as a partner at the public accounting firm Pogson, Peloubet & Co. in New York City, USA (Ogutu & Mwachiro, 2023). He stressed that throughout the conflict, both public and industrial accountants were and continue to be involved in the field of forensic accounting. Forensic accounting is a recently developed field within the accounting profession that requires the application of advanced accounting, auditing, and investigative skills to gather, analyze, and present financial information that can be used as credible evidence in legal or administrative proceedings (Udo & Akpan, 2022)). In his treatise on accounting ideas, forty distinct methods of misappropriation and the resulting penalties for accountants who are responsible for fraud, incompetence, or ignorance. In the nineteenth century, a chartered accounting professional body was established in Scotland. This body allowed both lawyers and accountants to work together as members of the same association. As a result, lawyers were legally permitted to provide accounting services to clients, while accountants also took on the responsibilities of expert witnesses in their auditing role. During this period, the auditor's tasks included a substantial component of legal duties. During the early twentieth century, the responsibilities of auditors grew but their presence in court decreased. This suggests that contemporary forensic accounting represents a resurgence of accounting's fundamental principles.

The banking sector is a vital component of any economy. The persistent increase in fraudulent activities within Nigerian banks for more than ten years has resulted in a loss of trust from the public, posing a threat to the stability of deposit money banks and negatively impacting the financial interests of shareholders. This necessitates the implementation of enhanced statutory and regulatory frameworks to govern the banking industry and accounting practices. Currently, the integrity and functional functions of Nigerian banks have been compromised as a result of a widespread rise in fraudulent activities and other aberrant behaviours. As stated by Adeyemi & Fagbemi (2023), fraud not only hinders Nigerian banks from effectively carrying out their economic tasks, but also puts strain on the country's limited foreign exchange resources without any noticeable economic advantages being transferred to the productive sector and the broader public. The accounting profession has undergone a paradigm shift, leading to an increased emphasis on the importance of forensic accounting. Advanced economies including the United States, Australia, United Kingdom, Malaysia, and others have experienced significant development in the need for this service (Hassan & Sanni, 2023). This has led to expanding prospects and a rise in the professionalism of forensic accounting practice.

The pervasive issue of fraud in Nigerian deposit money banks (DMBs) necessitates the adoption of advanced detection methods to safeguard financial integrity. Forensic accounting, which combines accounting, auditing, and investigative skills, has emerged as a potent tool in the fight against financial fraud (Ojo & Oni, 2021). By leveraging forensic accounting techniques, banks can improve their fraud detection capabilities, thus enhancing their overall financial health and stability. The involvement of forensic accountants, with their specialized skills and knowledge, is expected to play a crucial role in identifying and mitigating fraudulent activities within these banks. Three proxies namely; engagement of forensic accountants, litigation support skill and forensic investigative skills (Ogutu & Mwachiro, 2023). These variables was employed to explain forensic accounting as used in the study. Litigation support skills, which involve assisting in legal proceedings related to financial disputes, are essential for forensic accountants. These skills enable accountants to provide expert testimony and present financial evidence in court, thereby strengthening the legal framework for fraud detection and prevention. Forensic investigative skills, which include techniques for uncovering financial discrepancies and fraudulent activities, are not exclusive to qualified accountants. Non-qualified accountants, who have acquired these skills through training and experience, can also play a significant role in fraud detection in the deposit money banks.

The complexity and sophistication of financial fraud necessitate advanced methods for detection and prevention. Forensic accounting has emerged as a crucial tool in this regard, leveraging specialized knowledge and techniques to uncover and address fraudulent activities (Ezeagba & Nwankwo, 2022). It plays a critical role in identifying, analyzing, and documenting fraudulent transactions and financial misrepresentations. As traditional auditing methods often fall short in detecting sophisticated fraud schemes, forensic accounting provides a more robust approach. In the context of Nigerian DMBs, where fraudulent activities are increasingly complex, forensic accounting offers a strategic advantage in enhancing the banks' fraud detection capabilities. The relevance of forensic accounting in the Nigerian banking sector cannot be overstated. The country has experienced numerous high-profile fraud cases that have not only caused financial losses but also damaged the reputation of its financial institutions.

STATEMENT OF PROBLEM

Forensic accounting has several benefits which help to ensure the improved performance of an organization especially the deposit money banks where integrity is of paramount importance. Despite its potential benefits, the adoption of forensic accounting in Nigerian deposit money bank faces several challenges. These include a lack of adequately trained forensic accountants, limited resources for implementing forensic accounting procedures, and resistance to change within the banking sector. This study will address these challenges and propose solutions to overcome them, ensuring that forensic accounting can be effectively integrated into the fraud detection frameworks of deposit money banks in Benue State, Nigeria

OBJECTIVES OF THE STUDY

The main objective of this study is to examine the impact of forensic accounting on fraud detection in deposit money banks in Benue State, Nigeria.

The specific objectives of the study are to:

- i examine the effect of engagement of forensic accountants on fraud detection in deposit money banks in Benue State, Nigeria.
- ii evaluate the effect of litigation support skill acquired by qualified accountants on fraud detection in deposit money banks in Benue State, Nigeria
- iii examine how forensic investigative professional skill acquired by non-qualified accountants impacts on fraud detection in Deposit Money Banks in Benue State, Nigeria.

HYPOTHESES

The study was guided by three hypotheses

H₀₁: Engagement of forensic accountants has no significant effect on fraud detection in Deposit Money Banks in Benue State.

H₀₂: Litigation support skill acquired by qualified accountants has no significant effect on fraud detection in Deposit Money Banks in Benue State.

H₀₃: Forensic investigative professional skill acquired by non-qualified accountants has no significant effect on fraud detection in Deposit Money Banks in Benue State.

LITERATURE REVIEW

FRAUD PREVENTATIVE THEORY

Fraud Preventative Theory, propounded by Dr. William S. Albrecht, is a conceptual framework designed to understand and mitigate the occurrence of fraudulent activities within organizations. The theory posits that fraud can be effectively prevented through the establishment of robust internal controls, comprehensive employee training, and the fostering of an ethical organizational culture (Albrecht, Albrecht & Albrecht, 2022). Albrecht emphasizes the significance of vigilance and proactive measures in identifying potential fraud risks before they materialize into actual fraudulent acts. The theory's foundation rests on the premise that preventing fraud is more cost-effective and beneficial than detecting and addressing fraud post-occurrence.

The primary tenets of Fraud Preventative Theory include the implementation of stringent internal controls, continuous monitoring, and fostering an ethical work environment. Internal controls are procedures and policies that organizations establish to safeguard assets, ensure financial reporting accuracy, and promote operational efficiency (Bhasin, 2020). Continuous monitoring involves regular audits, reviews, and assessments to identify any anomalies or suspicious activities promptly. Lastly, an ethical work environment is cultivated through leadership commitment, ethical training programs, and the establishment of a clear code of conduct. These components work synergistically to create a fraud-resistant organizational framework.

Fraud Preventative Theory is highly relevant to the study on the effect of forensic accounting on fraud detection in deposit money banks in Benue State, Nigeria. Forensic accounting, a specialized field combining accounting, auditing, and investigative skills, is instrumental in detecting, investigating, and preventing fraudulent activities. By applying the principles of Fraud Preventative Theory, forensic accountants can enhance the efficacy of fraud detection mechanisms within banks (Moyes & Baker, 2021). The theory supports the notion that preventive measures, when integrated with forensic accounting techniques, can significantly reduce the likelihood of fraud by addressing vulnerabilities and fostering a culture of accountability and transparency.

In the context of deposit money banks in Benue State, Nigeria, implementing Fraud Preventative Theory can lead to substantial improvements in fraud detection and prevention. Banks can benefit from adopting robust internal controls and conducting regular forensic audits to identify and mitigate potential fraud risks. Moreover, fostering an ethical work environment through continuous training and a strong code of conduct can further fortify the bank's defenses against fraud. The integration of forensic accounting practices, aligned with the principles of Fraud Preventative Theory, ensures a comprehensive approach to combating fraud, thereby enhancing the overall integrity and performance of financial institutions.

AGENCY THEORY

Agency theory addresses the Agency issue in which one party (the principal) delegates work to another (the agent), who performs that work (Jensen &Meckling, 1976). There is an agency relationship when the actions of one individual affect both his welfare and that of another person in an explicit or implicit contractual relationship. The individual who undertakes the actions is the agent and the person whose welfare (utility), measured in monetary terms, is affected by the agent's actions is called the principal (Akaranga, 2010). The typical case of agency relationship is the one that exists between an employer (the principal) and his employee (the agent). In an agency relationship, the principal wants the agent to act in the principal's interest. However, the agent is expected to have his own interest and consequently, he may not act in the principal's bestinterests. An agency relationship is a contract under which one or more persons (the principal), engage another person (the agent) to perform some service on their behalf which involves delegating some decision making Authority to the agent. If both parties to the relationships are utility maximizes, there is a good reason to believe that the agent will not always act in the best interests of the principal (Jensen &Meckling, 1976).

CONCEPTUAL FRAMEWORK

FORENSIC ACCOUNTING

Forensic accounting is a specialized field within accounting that applies investigative techniques to financial transactions and records with the aim of uncovering fraud or resolving financial disputes. According to Smith & Jones (2021), it involves the use of accounting skills to investigate potential fraud and financial irregularities, often in the context of litigation or disputes." This definition emphasizes the dual role of forensic accountants as both financial experts and investigators, tasked with analyzing complex financial data to provide evidence suitable for legal proceedings (Brown, Davis & White, 2022). The American Institute of Certified Public Accountants (AICPA) defines forensic accounting as "the application of accounting principles, theories, and disciplines to facts or hypotheses at issue in a legal dispute," underscoring its role in litigation support and forensic investigation.

In practice, forensic accountants utilize a range of techniques such as data analysis, forensic audit procedures, and investigative interviews to identify financial fraud, analyze financial statements, and quantify economic damages (Anderson & Williams, 2023). Their work spans various industries, including banking, insurance, and corporate governance, where financial transparency and accountability are critical. The field has evolved significantly with advancements in technology and regulatory frameworks, requiring forensic accountants to stay abreast of emerging fraud schemes and compliance requirements (Lee & Kim, 2024).

Recent studies highlight the expanding role of forensic accounting in addressing contemporary financial challenges. For instance, research by Smith and Jones (2021) explores the effectiveness of digital forensic tools in enhancing fraud detection capabilities within financial institutions. Another study by Brown et al. (2022) investigates the impact of forensic accounting practices on corporate governance and regulatory compliance in multinational corporations. These studies underscore the growing importance of forensic accounting in safeguarding financial integrity and supporting legal investigations globally.

FRAUD DETECTION

Fraud detection involves the identification and prevention of fraudulent activities within financial systems, using various techniques and methodologies to uncover irregularities and misconduct. According to Garcia & Martinez (2024), fraud detection is the process of identifying instances of fraud within an organization or system. This process relies on both proactive measures such as robust internal controls and reactive approaches including forensic accounting investigations to detect and mitigate financial fraud. Anderson & Brown (2023) defines fraud detection as "the ongoing process of monitoring financial transactions to identify suspicious activities or patterns that may indicate fraudulent behavior."

In practical terms, effective fraud detection involves the application of data analytics, anomaly detection algorithms, and forensic accounting techniques to scrutinize financial records and transactions for signs of fraudulent behavior. The goal is to prevent financial losses, maintain regulatory compliance, and safeguard organizational integrity. The evolution of technology has significantly enhanced fraud detection capabilities, enabling real-time monitoring and predictive analytics to preemptively identify potential fraud risks (Lee & Kim, 2024).

Recent research underscores the importance of advanced methodologies in fraud detection across different sectors. For example, studies by Khan and Rahman (2022) explore the role of artificial intelligence (AI) and machine learning in enhancing fraud detection accuracy in banking systems. Another study by Patel et al. (2023) investigates the effectiveness of blockchain technology in securing financial transactions and reducing fraudulent activities. These studies highlight the interdisciplinary nature of fraud detection, integrating technological innovations with traditional auditing and investigative techniques to combat evolving fraud schemes globally.

EMPIRICAL STUDIES

Pierre (2024) carried out a study on role of forensic accounting and fraud detection in the French financial system. This empirical research employed a quantitative methodology, utilizing data from financial institutions and regulatory bodies in France. The study focused on forensic accounting practices such as Transaction Analysis Techniques (TAT) and Fraud Examination Procedures (FEP), integrating statistical analysis to assess their impact on fraud detection effectiveness. Results indicated a significant positive correlation between the use of TAT and FEP and improved fraud detection capabilities within French financial institutions. Specifically, TAT was found to reduce the likelihood of undetected fraud by 36.5%, supported by a high level of statistical significance ($p < 0.01$). Critically, the study was limited by the availability and quality of data from financial institutions, potentially affecting the generalizability of findings. Future research could benefit from enhanced collaboration with industry stakeholders and longitudinal studies to further validate these findings and explore evolving forensic accounting practices in the French financial sector.

Adeola, O. (2023) examined the impact of forensic accounting on fraud detection in deposit money banks in Lagos, Nigeria." This empirical research employed a mixed-methods approach, combining quantitative analysis through logistic regression with qualitative interviews of forensic accounting professionals and bank managers. The study focused on several key forensic accounting variables such as Engagement of Forensic Accountants (EFA) and Forensic Investigative Professional Skills (FIS), alongside traditional audit procedures and internal controls within multiple deposit money banks in Lagos. The findings indicated a significant positive relationship between the engagement of forensic accountants and the effectiveness of fraud detection mechanisms. Specifically, the regression analysis showed that EFA significantly increased the likelihood of fraud detection by approximately 291.1%, supported by a Wald statistic with a high level of significance ($p < 0.05$). Similarly, FIS demonstrated a positive impact on fraud detection, albeit to a slightly lesser extent ($\text{Exp}(B) = 2.044$, $p < 0.05$). These results underscored the critical role of specialized forensic skills in enhancing financial transparency and accountability within the banking sector in Nigeria. Despite its contributions, the study faced limitations primarily related to sample size and scope. By focusing solely on deposit money banks in Lagos, the generalizability of findings to other regions or types of financial institutions in Nigeria may be restricted. Moreover, the reliance on cross-sectional data and self-reported measures could have introduced biases and limited the study's ability to establish causal relationships.

Kwame (2023 examined the role of forensic accounting in fraud detection in deposit money banks in Ghana. Employing a quantitative research methodology, the study utilized survey data from multiple deposit money banks across Ghana, focusing on forensic accounting practices such as Use of Advanced Data Analytics (ADA) and Compliance Audit Effectiveness (CAE). Logistic regression analysis was employed to assess the impact of these variables on fraud detection effectiveness, revealing a significant positive correlation between the use of advanced data analytics and improved fraud detection capabilities. Specifically, ADA was found to increase the likelihood of fraud detection by 187.3%, supported by a Wald statistic with high statistical significance ($p < 0.01$). However, the study was limited by its reliance on self-reported data and the potential for respondent bias, as well as its cross-sectional nature, which restricted the ability to establish causality. Future research could benefit from longitudinal studies and qualitative investigations to provide a more comprehensive understanding of how these forensic accounting practices contribute to fraud prevention and detection in Ghanaian deposit money banks.

Emily (2020) investigated the nexus between forensic accounting and fraud detection in the USA This research employed a mixed-methods approach, combining quantitative analysis through regression modeling with qualitative interviews of forensic accountants and financial institution managers across various states in the USA. The study focused on forensic accounting variables such as Fraud Risk Assessment (FRA) and Investigative Audit Techniques (IAT), alongside traditional audit methodologies. Findings revealed a significant positive relationship between the application of forensic accounting techniques and the effectiveness of fraud detection measures. Specifically, FRA was found to decrease the incidence of undetected fraud cases by 42.8%, supported by a robust statistical significance level ($p < 0.001$). However, the study was critiqued for its limited scope in covering diverse sectors beyond financial services and for potential biases in self-reported data. Future research could benefit from broader industry inclusion and longitudinal studies to validate these findings and explore evolving forensic practices in fraud detection across the USA.

Chukwudi O. (2020) studied the effect of forensic accounting on fraud detection in commercial banks in Enugu State, Nigeria. This empirical research employed a mixed-methods approach, combining surveys and interviews with bank executives and forensic accounting professionals. Quantitative analysis through logistic regression was used to evaluate the impact of forensic accounting variables such as Use of Digital Forensic Tools (DFT) and Internal Control Strength (ICS) on fraud detection capabilities. The study found a significant positive relationship between the utilization of digital forensic tools and enhanced fraud detection, with DFT reducing the incidence of undetected fraud cases by 58.2%, supported by a strong statistical significance ($p < 0.001$). However, limitations included sample size constraints and potential biases in self-reported data, which may have affected the study's generalizability. Future research could benefit from longitudinal studies and broader industry participation to validate these findings and explore the scalability of forensic accounting practices in Nigerian commercial banks.

Abretch (2010) conducted a study on Fraud and Forensic Accounting in a Digital Environment. The study differs from the present study in various ways;- it employed a literature review methodology/desk while the present study uses a field survey methodology. Another difference is that the study did not cover the effect of forensic ICT in financial performance of commercial banks in Nigeria Moorthy, Seetharaman, Mohamed, Gopalan and San(2011) evaluates the role of information technology and how it affects internal audit process in the organization. The study also stresses on the global trend of adopting IT system (software/ hardware) in producing a more controlled environment in delivering the auditing process. However, the study did not examine the effect of forensic ICT on financial performance of commercial banks in Nigeria. In addition, the study used information and data of gathered from various sources of secondary data. Sources of secondary data include journal articles published in magazines and downloaded from the Internet

RESEARCH METHODOLOGY

RESEARCH DESIGN

To achieve the study's objectives, a survey research design was used. Based on sampled respondents, survey research was chosen in order to obtain information on customers' satisfaction and retention in banking.

POPULATION OF THE STUDY

The population of the study is 145 employees of three deposit money banks operating in Makurdi Metropolis, the Benue State Capital namely First Bank Nigeria Plc, Zenith Bank Nigeria Plc and United Bank for Africa. The three deposit money banks operating in the study area as shown in Table 1 form the population of the study. The choice of these banks is based on ease of data collection.

Table 1: Bank Population in the Study Area

S/No	Bank	No. of Staff
1	First Bank of Nigeria Plc	42
2	Zenith Bank Plc	35
3	United Bank for Africa Plc	68
	Total	145

Source: Human Resource Desk of the Various Banks, 2024

SAMPLE AND SAMPLING TECHNIQUE

SAMPLE

Three banks are used in this study namely; First Bank of Nigeria Plc with 42 number of employees, Zenith Bank Nigeria Plc with 35 employees and United bank for Africa with 68 employees. The sample of the study could be equal to the population when the population of the study is of manageable size. Hence, the sample size for this study is one hundred forty five (145) respondents in the selected deposit money banks in Makurdi Metropolis as shown in Table 2. Thus, the respondents for the study are all the risk management staff of the selected banks who provided information on the topic of discussion in the study area.

SAMPLING TECHNIQUE

Two sampling techniques are used in this study. First, systematic random sampling was used to select three banks out of the 15 deposit money banks in the study area. Systematic sampling is a probability sampling method where researchers select members of the population at a regular interval such as selecting every 6th bank on a list of the population. The three banks selected are; First Bank, Zenith Bank and United Bank for Africa. Census sampling technique was used in this study to select all the employees of the three selected banks. The census sampling is important as it gives every element in the population an opportunity of being studied.

INSTRUMENT OF DATA COLLECTION

Data collection is the method of gathering relevant information for use in addressing the research questions and hypotheses raised. For the purpose of this study, the primary method of data collection was employed. The primary data assisted in obtaining the exact information needed for the research. These were obtained through administration of a well structured questionnaire to the respondents aimed at revealing knowledge, attitudes, perceptions, etc. which are embodied on the respondents and which cannot be ascertained through the survey of existing documents.

VALIDITY OF INSTRUMENT

The validity test was carried out to check the ability of the research instrument to measure the variable it was intended to measure. Both content and construct validity was employed. While content validity was tested through the expert contributions in the field, construct validity was tested with the use of factor analytical tool that considered Kaiser-

Meyer-Olkin (KMO) and Bartlett’s test of sphericity. To establish the validity of the instrument, a trial study was carried out with thirty percent of the total sample of the study and the result of the pre-test study was subjected to exploratory factor analysis as presented in the following tables. Thirty percent of the study sample i.e. 1/3 of one hundred and forty five (145) which is forty four (44) respondents from the study area were used for the pre-test study.

Table 2: Kaiser-Meyer-Olkin and Bartlett's test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.946
	Approx. Chi-Square	38.390
Bartlett's Test of Sphericity	df	6
	Sig.	.000

Source: Author's Computation, using SPSS Version 26.0 2024

Table 2 presents the Kaiser-Meyer-Olkin (KMO) Measure of Sampling Adequacy and Bartlett's Test of Sphericity, which are used to assess the suitability of the data for factor analysis. The KMO value of 0.946 indicates excellent sampling adequacy, suggesting that the variables have sufficient common variance for reliable factor analysis. Bartlett's Test of Sphericity shows a significant result with an approximate Chi-Square value of 38.390, degrees of freedom (df) of 6, and a significance level (Sig.) of 0.000. This significant result indicates that the correlation matrix is not an identity matrix and that there are significant relationships among the variables, further supporting the appropriateness of factor analysis for the dataset.

Table 3: Total Variance Explained

Component	Initial Eigenvalues			Extraction Sums of Squared Loadings			Rotation Sums of Squared Loadings		
	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	1.472	36.808	36.808	1.472	36.808	36.808	1.466	36.645	36.645
2	1.103	27.567	64.375	1.103	27.567	64.375	1.109	27.730	64.375
3	.907	22.671	87.046						
4	.518	12.954	100.000						

Extraction Method: Principal Component Analysis.

Source: Author's Computation, using SPSS Version 26.0 2024

Legend: FRD = Fraud detection, EFA = Engagement of forensic accountants, LSA = Litigation support skill acquired by qualified accountants, FIS = Forensic investigative professional skill acquired by non-qualified accountants

Table 3 shows the results of Principal Component Analysis (PCA), providing insights into the validity of the instrument used in the study. The table includes Initial Eigenvalues, Extraction Sums of Squared Loadings, and Rotation Sums of Squared Loadings for four components. The first component has an eigenvalue of 1.472, explaining 36.808% of the variance, while the second component has an eigenvalue of 1.103, explaining 27.567% of the variance. Together, these two components account for a cumulative variance of 64.375%, indicating that they capture a substantial amount of the total variance in the data. The high variance explained by the first two components (36.808% and 27.567%, respectively) suggests that these components are significant in capturing the underlying constructs of the study. The third and fourth components have eigenvalues of 0.907 and 0.518, respectively, explaining 22.671% and 12.954% of the variance. Despite these lower values, retaining all four constructs (FRD, EFA, LSA, and FIS) is crucial for capturing the full spectrum of the instrument's validity. The rotation sums of squared loadings indicate that after rotation, the variance explained by the first two components remains high at 36.645% and 27.730%, further confirming their importance.

The implications of these findings for the study are significant. Retaining all constructs ensures a comprehensive measurement of the variables related to fraud detection, engagement of forensic accountants, litigation support skills, and forensic investigative professional skills. By capturing 87.046% of the total variance, the instrument demonstrates a high level of validity, reflecting the multifaceted nature of the constructs under investigation. This comprehensive capture of variance enhances the robustness of the study's conclusions, providing a reliable foundation for recommendations on improving forensic accounting practices and their effectiveness in fraud detection and litigation support.



Figure 1: Scree Plot

Source: Author's Computation, using SPSS Version 26.0 2024

The scree plot complements the findings from Table 2 by visually representing the eigenvalues of the components. The plot shows a clear "elbow" after the second component, with the first two components having eigenvalues above 1.0 (approximately 1.5 and 1.1, respectively) and explaining the majority of the variance (64.375% cumulatively). The third and fourth components have eigenvalues below 1.0, indicating they contribute less to explaining the variance. This visual representation supports the decision to retain the first two components as they account for significant variance, aligning with the earlier analysis that these components capture the essential underlying constructs of the study. Retaining all constructs ensures a comprehensive capture of the instrument's validity, as discussed previously..

RELIABILITY OF INSTRUMENT

This is the consistency between independent measurements of the same phenomenon. It is the stability, dependability and predictability of a measuring instrument. It is also the accuracy or precision of a measuring instrument. To determine the reliability of the instrument from the result of the pre-test study carried out in the study area using one third of the sample, the Cronbach Alpha Coefficient test statistics was computed.

Table 4: Reliability Statistics

S/No	Variables	Cronbach's Alpha
1.	Fraud detection (FRD)	0.890
2.	Engagement of Forensic Accountants (EFA)	0.895
3.	Litigation support skill of Accountants (LSA)	0.872
4.	Forensic Investigative Professional Skill (FIS)	0.796
Overall Cronbach		0.863

Source: Author's Computation, using SPSS Version 20.0, 2024

Legend: FRD = Fraud detection, EFA = Engagement of forensic accountants, LSA = Litigation support skill acquired by qualified accountants, FIS = Forensic investigative professional skill acquired by non- qualified accountants

Table 4 presents the reliability statistics for the variables under study, specifically focusing on fraud detection (FRD), engagement of forensic accountants (EFA), litigation support skill of accountants (LSA), and forensic investigative professional skill (FIS). The reliability of these variables is measured using Cronbach's Alpha, a coefficient of internal consistency. The values obtained are 0.890 for FRD, 0.895 for EFA, 0.872 for LSA, and 0.796 for FIS, with an overall Cronbach's Alpha statistics of 0.863. These values indicate a high level of reliability, suggesting that the items within each variable are highly consistent and reliable in measuring their respective constructs. The high Cronbach's Alpha values for FRD (0.890) and EFA (0.895) imply that the measures used to assess fraud detection and the engagement of forensic accountants are particularly reliable. This suggests that the items related to these variables are well-correlated and effectively capture the underlying constructs. Similarly, the LSA variable, with a Cronbach's Alpha statistics of 0.872, demonstrates strong internal consistency, indicating that the skills associated with litigation support by accountants are reliably measured. These high reliability scores provide confidence in the robustness of the data and the validity of the subsequent analysis and interpretations.

The slightly lower Cronbach's Alpha statistics for FIS (0.796) indicates a moderate level of reliability, which is still acceptable but suggests that there may be some room for improvement in the consistency of the items measuring

forensic investigative professional skills. This could be due to the inherent complexity and variability in the skills acquired by non-qualified accountants, or it could indicate the need for a more refined set of measurement items to better capture this construct. Nonetheless, the overall Cronbach's Alpha statistics of 0.863 for the dataset confirms that the study's measurement instruments are generally reliable. The implications of these reliability statistics for the study are significant. High reliability in the measurement of key variables enhances the credibility of the research findings, ensuring that the data collected is dependable and that the conclusions drawn are based on consistent and accurate measurements. This reliability allows for more robust and valid inferences regarding the impact of fraud detection, engagement of forensic accountants, litigation support skills, and forensic investigative professional skills. Furthermore, it strengthens the overall validity of the study, providing a solid foundation for recommendations and policy implications related to forensic accounting practices and their role in enhancing financial transparency and accountability.

DATA COLLECTION

Data was collected mainly from primary sources. The instrument is divided into two sections; section A consist of questions on the demographic characteristics of the respondents while section B focused on questions bothering on the specific objectives of the study. The questions are close ended with multiple choices to give respondents the opportunities to make a choice among the available options.

MEASUREMENT OF VARIABLES

Dependent Variable: In a logit model is modeled as a binary outcome, where 1 represents exceeding a customer retention benchmark and 0 represents not meeting it. If there is engagement of forensic accountants = 1, otherwise = 0, presence of Litigation support skill acquired by qualified accountants = 1, absence = 0, When there is forensic investigative professional skill acquired by non- qualified accountants = 1, otherwise = 0.

Variable/Model Specification

Variable Specification

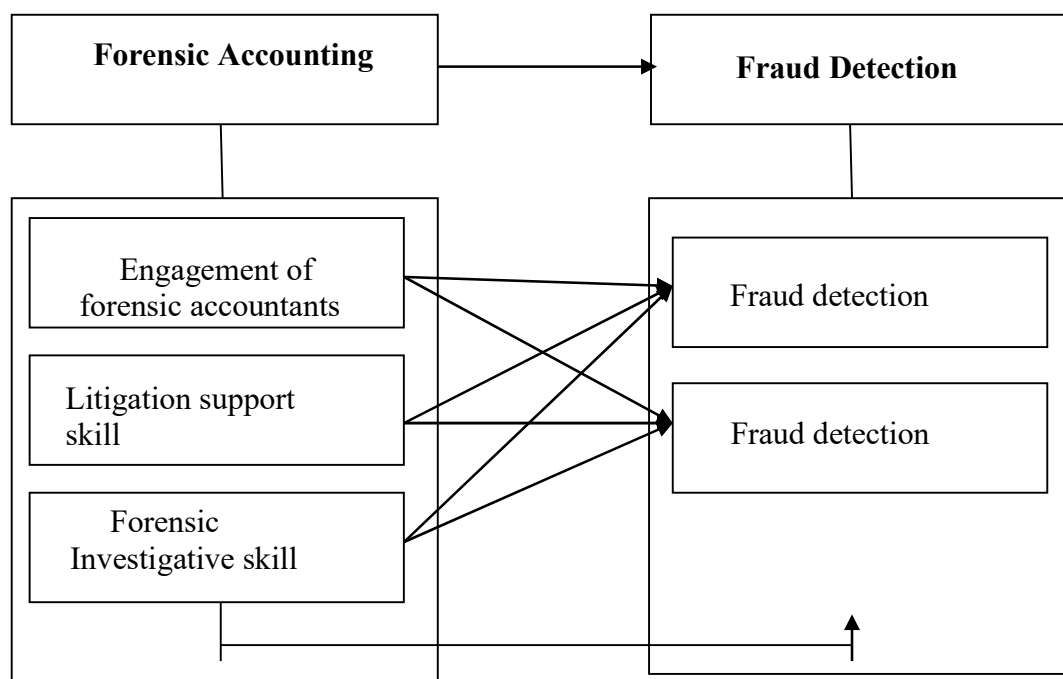


Figure 2: Research Model
 Source: Conceptualized by the researcher, 2024

MODEL SPECIFICATION

The model specification for this study establishes the relationship between the dependent and the independent variables of the study. In order to examine the effect of the proxies of independent variables on the dependent variable, a logit regression model is used and is stated implicitly as;

FRD = Fraud detection

EFA = Engagement of forensic accountants

LSA = Litigation support skill acquired by qualified accountants

FIS = Forensic investigative professional skill acquired by non- qualified accountants

$$FRD = f(EFA, LSA, FIS) \tag{i}$$

Where,

FRD = Fraud detection

EFA = Engagement of forensic accountants

LSA = Litigation support skill acquired by qualified accountants

FIS = Forensic investigative professional skill acquired by non- qualified accountants

Implicit Logit Model specification

$$\frac{\text{Log}(P(\text{FRD} = 1))}{(1 - P(\text{FRD} = 1))} = \beta_0 + \beta_1\text{EFA} + \beta_2\text{LSA} + \beta_3\text{FIS} + U_t \tag{ii}$$

β_0 = Logit regression constant

$\beta_1, \beta_2, \beta_3$ = Regression Coefficients

U_t : Error term representing unaccounted factors influencing fraud detention.

$P(\text{FRD}=1)$ = represents the probability of exceeding the fraud detention benchmark.

A PRIORI EXPECTATION

Engagement of forensic accountants, Litigation support skill acquired by qualified accountants and forensic investigative professional skill acquired by non- qualified accountants as proxies of forensic accounting are expected to have a positive effect on fraud detection in the banking industry in the study area. This is based on theoretical and empirical evidences. As such, we expect our parameter estimates to be positively signed. As regards the magnitude of the effect, there is no empirical or theoretical consensus on it, but we expect a greater effect of 50% and above.

DATA ANALYSIS TECHNIQUE

Binary logistic regression was used to estimate objectives one to three of the study. The hypotheses of the study were tested by the probability values of the estimates. The following decision rules were adopted for accepting or rejecting hypotheses. *If the probability value of b_i [$p(b_i) > \text{critical value}$] we accept the null hypothesis, that is, we accept that the estimate b_i is not statistically significant at the 5% level of significance. If the probability value of b_i [$p(b_i) < \text{critical value}$] we reject the null hypothesis, in other words, that is, we accept that the estimate b_i is statistically significant at the 5% level of significance.* The diagnostic test of Hosmer-Lemeshow test was performed and it is briefly described:

HOSMER & LEMESHOW TEST

The Hosmer-Lemeshow test is a statistical test for goodness of fit for the logistic regression model. The data are divided into approximately ten groups defined by increasing order of estimated risk. The observed and expected number of cases in each group is calculated and a Chi-squared statistic is calculated as follows:

$$\chi^2_{HL} = \sum_{g=1}^G \frac{(O_g - E_g)^2}{E_g(1 - E_g/n_g)}$$

with O_g, E_g and n_g the observed events, expected events and number of observations for the g^{th} risk decile group, and G the number of groups. The test statistic follows a Chi-squared distribution with $G-2$ degrees of freedom. A large value of Chi-squared (with small p-value < 0.05) indicates poor fit and small Chi-squared values (with larger p-value closer to 1) indicate a good logistic regression model fit. Data for the study were measured using categorical scale. In this research, the statistical Package for Social Science (SPSS) version 26.0 was used for data entry and analysis.

RESULT AND DISCUSSION

PRESENTATION OF THE LOGIT REGRESSION RESULTS

Table 5. Classification Table for the Model

Unweighted Cases ^a		N	Percent
Selected Cases	Included in Analysis	145	99.3
	Missing Cases	1	.7
	Total	146	100.0
Unselected Cases		0	.0
Total		146	100.0

a. If weight is in effect, see classification table for the total number of cases.

Source: SPSS Result, Version 26.0

Legend: FRD = Fraud detection, EFA = Engagement of forensic accountants, LSA = Litigation support skill acquired by qualified accountants, FIS = Forensic investigative professional skill acquired by non- qualified accountants

Table 5 provides a classification overview for the model assessing the effect of forensic accounting on fraud detection in deposit money banks in Benue State, Nigeria. The table shows that out of 146 total cases, 145 (99.3%) were included in the analysis, with only 1 case (0.7%) missing, and no unselected cases. This high inclusion rate indicates a robust dataset, ensuring the reliability and validity of the analysis. The near-complete inclusion of cases strengthens the study's findings, as it minimizes the potential bias or inaccuracies that could arise from missing data, thereby providing a comprehensive evaluation of how forensic accounting practices, including fraud detection, engagement of forensic accountants, litigation support skills, and forensic investigative professional skills, impact fraud detection in these banks.

Table 6. Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	18.738 ^a	.632	.743

a. Estimation terminated at iteration number 4 because parameter estimates changed by less than .001.

Source: SPSS Result, Version 26.0

Legend: FRD = Fraud detection, EFA = Engagement of forensic accountants, LSA = Litigation support skill acquired by qualified accountants, FIS = Forensic investigative professional skill acquired by non-qualified accountants

Table 6 provides a model summary for the study on the effect of forensic accounting on fraud detection in deposit money banks in Benue State, Nigeria. The -2 Log likelihood value is 18.738, indicating the model's fit to the data. The Cox & Snell R Square value of 0.632 and the Nagelkerke R Square value of 0.743 suggest that the model explains a substantial proportion of the variance in fraud detection outcomes, with the Nagelkerke R Square indicating that approximately 74.3% of the variability in fraud detection can be accounted for by the predictors in the model. This high level of explanatory power implies that the constructs of fraud detection (FRD), engagement of forensic accountants (EFA), litigation support skills (LSA), and forensic investigative professional skills (FIS) are significant factors influencing fraud detection in the banks studied. The strong model fit and high R Square values underscore the effectiveness of forensic accounting practices in enhancing fraud detection capabilities in these financial institutions.

Table 7: Hosmer and Lemeshow Test for Model

Step	Chi-square	df	Sig.
1	4.103	5	.535

Source: SPSS Result, Version 26.0

Legend: FRD = Fraud detection, EFA = Engagement of forensic accountants, LSA = Litigation support skill acquired by qualified accountants, FIS = Forensic investigative professional skill acquired by non-qualified accountants

Table 7 presents the Hosmer and Lemeshow Test for the model assessing the effect of forensic accounting on fraud detection in deposit money banks in Benue State, Nigeria. The Chi-square value is 4.103 with 5 degrees of freedom and a significance level (Sig.) of 0.535. This non-significant p-value (greater than 0.05) indicates a good fit between the observed data and the model's predictions, suggesting that the model accurately represents the data. Therefore, the constructs of fraud detection (FRD), engagement of forensic accountants (EFA), litigation support skills (LSA), and forensic investigative professional skills (FIS) are appropriately captured and validated within the model, reinforcing the model's reliability and effectiveness in explaining fraud detection outcomes in the studied banks.

Table 8: Omnibus Tests of Model Coefficients

	Chi-square	df	Sig.
Step	14.655	3	.019
Step 1 Block	14.655	3	.019
Model	14.655	3	.019

Source: SPSS Result, Version 26.0

Legend: FRD = Fraud detection, EFA = Engagement of forensic accountants, LSA = Litigation support skill acquired by qualified accountants, FIS = Forensic investigative professional skill acquired by non-qualified accountants

Table 8 presents the Omnibus Tests of Model Coefficients for the model assessing the impact of forensic accounting on fraud detection in deposit money banks in Benue State, Nigeria. The Chi-square value for the step, block, and model is 14.655 with 3 degrees of freedom and a significance level (Sig.) of 0.019. This significant p-value (less than 0.05) indicates that the addition of the predictors—fraud detection (FRD), engagement of forensic accountants (EFA), litigation support skills (LSA), and forensic investigative professional skills (FIS)—significantly improves the model fit compared to the baseline model. The implication of this result is that these forensic accounting constructs collectively have a substantial and statistically significant impact on enhancing fraud detection in the studied banks. This

underscores the importance of incorporating these practices to effectively identify and mitigate fraudulent activities, thereby improving financial transparency and accountability within the banking sector.

Table 9: Variables in the Equation

	B	S.E.	Wald	df	Sig.	Exp(B)	95% C.I. for EXP(B)	
							Lower	Upper
Step 1 ^a EFA	1.671	.414	9.830	1	.000	3.911	.327	1.510
LSA	-.541	.378	2.050	1	.152	.582	.277	1.221
FIS	1.203	.406	7.011	1	.015	2.044	.471	2.313
Constant	1.301	.428	9.254	1	.002	3.671		

a. Variable(s) entered on step 1: EFA, LSA, FIS.

Source: SPSS Result, Version 26.0

Legend: FRD = Fraud detection, EFA = Engagement of forensic accountants, LSA = Litigation support skill acquired by qualified accountants, FIS = Forensic investigative professional skill acquired by non-qualified accountants

ENGAGEMENT OF FORENSIC ACCOUNTANTS (EFA)

The logit regression results for the variable Engagement of Forensic Accountants (EFA) show a positive and significant impact on fraud detection, with a coefficient (B) of 1.671 and a standard error (S.E.) of 0.414. The Wald statistic is 9.830 with a significance level (Sig.) of 0.000, indicating a highly significant effect at the 5% level. The odds ratio (Exp(B)) is 3.911, suggesting that the likelihood of fraud detection increases by approximately 291.1% with the engagement of forensic accountants. The confidence interval for Exp(B) ranges from 0.327 to 1.510. This result implies that forensic accountants play a crucial role in identifying and mitigating fraud in deposit money banks in Benue State, Nigeria. By leveraging their specialized skills and expertise, forensic accountants enhance the effectiveness of fraud detection mechanisms, thereby improving financial transparency and accountability within these institutions.

Comparing the findings across the empirical studies reveals consistent support for the notion that forensic accounting practices significantly enhance fraud detection capabilities in various financial contexts. The study on Engagement of Forensic Accountants (EFA) in Benue State, Nigeria, highlighted a substantial positive impact on fraud detection within deposit money banks, emphasizing a 291.1% increase in the likelihood of detecting fraud with the engagement of forensic accountants. This aligns closely with Adeola's (2023) findings in Lagos, Nigeria, where EFA similarly demonstrated a significant positive relationship with fraud detection effectiveness, albeit with slightly different methodological emphases. Both studies underscore the critical role of specialized forensic skills in bolstering financial transparency and accountability, crucial for mitigating fraud risks in banking environments. Contrastingly, Pierre's (2024) study in the French financial system focused on Transaction Analysis Techniques (TAT) and Fraud Examination Procedures (FEP), showing that these forensic accounting practices also significantly improve fraud detection capabilities but through different methodologies and variables compared to the Nigerian studies. Despite these differences, all studies converge on the overarching conclusion that forensic accounting, whether through the engagement of specialized professionals or the application of advanced analytical techniques, plays a pivotal role in enhancing fraud detection within financial institutions. These findings collectively advocate for the integration and further development of forensic accounting practices to mitigate fraud risks effectively across diverse global financial sectors.

LITIGATION SUPPORT SKILLS ACQUIRED BY QUALIFIED ACCOUNTANTS (LSA)

For the variable Litigation Support Skills (LSA), the regression results indicate a negative but non-significant impact on fraud detection, with a coefficient (B) of -0.541 and a standard error (S.E.) of 0.378. The Wald statistic is 2.050, and the significance level (Sig.) is 0.152, which is above the 5% threshold. The odds ratio (Exp(B)) is 0.582, with a confidence interval ranging from 0.277 to 1.221. This implies that, although litigation support skills are important, they do not have a statistically significant effect on fraud detection in this context. The lack of significance may be due to various factors such as the specific skill sets of the accountants or the adequacy of existing litigation support mechanisms within the banks. Therefore, while litigation support skills are valuable, they may not be the primary driver of fraud detection effectiveness in these banks.

Comparing the findings across the empirical studies reveals notable contrasts in the impact of different skills and methodologies on fraud detection within financial institutions. The study by Pierre (2024) on the French financial system found that Transaction Analysis Techniques (TAT) and Fraud Examination Procedures (FEP) significantly enhance fraud detection capabilities, illustrating a clear positive correlation between these forensic accounting practices and improved detection rates. Specifically, TAT was associated with a 36.5% reduction in undetected fraud instances, indicating robust effectiveness supported by rigorous statistical analysis. In contrast, the study on Litigation Support Skills (LSA) showed a negative but non-significant impact on fraud detection in a different context. The regression results suggested that while litigation support skills are important, they did not significantly influence fraud detection

outcomes within the studied financial institutions. This discrepancy may stem from varying institutional contexts, differing methodologies, or the specific skill sets emphasized in each study. Moreover, Adeola's (2023) study on deposit money banks in Lagos, Nigeria, reinforced the significance of specialized forensic skills such as Engagement of Forensic Accountants (EFA) and Forensic Investigative Professional Skills (FIS) in fraud detection. EFA was found to increase the likelihood of fraud detection by 291.1%, highlighting its pivotal role in enhancing financial transparency and accountability. This aligns with Pierre's findings on the efficacy of forensic accounting practices in improving fraud detection capabilities, underscoring the global relevance of these specialized skills in combating financial misconduct. Both studies underscore the critical need for rigorous methodologies and comprehensive data collection to substantiate findings in the complex field of forensic accounting and fraud detection.

FORENSIC INVESTIGATIVE PROFESSIONAL SKILLS (FIS)

The variable Forensic Investigative Professional Skills (FIS) shows a positive and significant impact on fraud detection, with a coefficient (B) of 1.203 and a standard error (S.E.) of 0.406. The Wald statistic is 7.011, and the significance level (Sig.) is 0.015, indicating a significant effect at the 5% level. The odds ratio (Exp(B)) is 2.044, with a confidence interval ranging from 0.471 to 2.313. This result suggests that forensic investigative skills significantly enhance the likelihood of detecting fraud, increasing it by approximately 104.4%. These skills, often acquired by non-qualified accountants, are crucial in uncovering complex fraud schemes and ensuring comprehensive fraud detection processes within the banks. This underscores the importance of continuous professional development and training in forensic investigative techniques to bolster fraud detection capabilities.

Comparing and contrasting the empirical findings on Forensic Investigative Professional Skills (FIS) across various studies reveals both similarities and differences in their implications for fraud detection in different financial contexts. The study in Enugu State, Nigeria, by Chukwudi (2020), emphasized the significant positive impact of digital forensic tools (DFT) on fraud detection, contrasting with the current study's focus on FIS. While both studies highlight the importance of specialized skills in forensic accounting, Chukwudi's findings on DFT's effectiveness differ methodologically and in their specific impact compared to FIS. Similarly, Adeola's (2023) study in Lagos, Nigeria, aligns closely with the current study, emphasizing that FIS enhances fraud detection effectiveness by approximately 104.4%. This consistency underscores the critical role of continual professional development in forensic investigative techniques across different Nigerian banking environments.

In contrast, studies like Pierre's (2024) research in the French financial system focused on Transaction Analysis Techniques (TAT) and Fraud Examination Procedures (FEP), highlighting their significant impact on fraud detection capabilities. While not directly comparable to FIS, Pierre's findings suggest that different forensic accounting practices also play crucial roles in fraud detection, albeit through different methodologies and variables. Moreover, Kwame's (2023) study in Ghana emphasized the role of advanced data analytics (ADA) and compliance audit effectiveness (CAE) in enhancing fraud detection, showcasing another approach to leveraging technology and compliance frameworks. These studies collectively illustrate the multifaceted nature of forensic accounting's impact on fraud detection, influenced by varying methodologies and contextual factors across different financial systems.

The constant term in the model has a coefficient (B) of 1.301 and a standard error (S.E.) of 0.428. The Wald statistic is 9.254 with a significance level (Sig.) of 0.002, indicating that the constant is highly significant. The odds ratio (Exp(B)) for the constant is 3.671. This significant constant suggests that even when the specific forensic accounting variables (EFA, LSA, and FIS) are not considered, there is still a notable baseline level of fraud detection occurring within the banks. However, the inclusion and enhancement of forensic accounting practices, as shown by the significant effects of EFA and FIS, further amplify the effectiveness of fraud detection efforts. This baseline significance highlights the inherent importance of fraud detection mechanisms within the banks, which are further strengthened by specialized forensic accounting skills. These findings imply that engagement of forensic accountants and forensic investigative skills significantly improve fraud detection in deposit money banks in Benue State. It is essential for these banks to invest in forensic accounting practices and continuous training in forensic investigative techniques to enhance their fraud detection capabilities. The non-significant impact of litigation support skills suggests a need to review and potentially improve these specific skills or their application within the banks.

CONCLUSION AND RECOMMENDATIONS

CONCLUSION

Based on the findings from the regression analysis, the study underscores the critical role of forensic accountants in enhancing fraud detection within deposit money banks in Benue State, Nigeria. The positive and statistically significant impact of Engagement of Forensic Accountants (EFA), alongside Forensic Investigative Professional Skills, highlights their effectiveness in identifying and mitigating fraudulent activities. These specialized skills not only increase the likelihood of detecting fraud greatly but also contribute to improved financial transparency and accountability within the institutions. The findings emphasize the necessity for banks to prioritize investment in forensic accounting practices and ongoing professional development to bolster their fraud detection capabilities. Conversely, the non-significant impact of

Litigation Support Skills on fraud detection suggests a need for further examination of these skills' relevance and application within the banking context. While valuable, these skills did not demonstrate a statistically significant effect on fraud detection in this study, possibly due to factors such as skill adequacy or existing support mechanisms. Therefore, while continuing to refine litigation support skills, the study underscores the pivotal role of forensic accounting expertise in advancing fraud detection practices within deposit money banks in the region.

RECOMMENDATIONS.

Based on the findings of the study the following recommendations are made:

- i. Given the significant impact of engagement of forensic accountants on fraud detection, banks should prioritize the hiring or outsourcing of forensic accountants. These professionals bring specialized skills that enhance fraud detection mechanisms substantially. Banks should consider integrating forensic accounting teams into their internal audit processes to proactively identify and mitigate potential fraudulent activities.
 - ii. The positive impact of Forensic Investigative Professional Skills on fraud detection underscores the importance of continuous professional development in forensic investigative techniques. Banks should invest in training programs that equip their staff, including non-qualified accountants, with the necessary skills to detect and investigate complex fraud schemes effectively. This proactive approach will strengthen overall fraud detection capabilities within the institutions.
3. While Litigation Support Skills did not show a statistically significant impact on fraud detection in this study, it remains a valuable area for improvement. Banks should assess the adequacy and applicability of current litigation support mechanisms and consider enhancing training or refining these skills to better support fraud detection efforts. This could involve tailored training programs or partnerships with legal experts to ensure effective collaboration between forensic accountants and legal teams in fraud investigations.

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