



Study and Analysis of AI and Fintech on Quality of Accounting Information Disclosures and Corporate Governance with special reference to Banking Sector

Abhijit Sharad Kelkar*

¹Associate Professor College of Business Administration, University of Fujairah United Arab Emirates

* Corresponding Author Email: abhijeetsharadkelkar@gmail.com- ORCID: 0000-0003-2000-5362

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Abstract:

The rapid integration of Artificial Intelligence (AI) and Financial Technology (Fintech) in the banking sector has significantly enhanced the quality of accounting information disclosures and corporate governance. AI-driven automation, machine learning, and Fintech innovations such as blockchain, smart contracts, and real-time data analytics have improved financial transparency, accuracy, and compliance. These technologies minimize human errors, detect fraud, and strengthen risk assessment processes, ensuring more reliable financial reporting. AI-powered audits and predictive analytics enhance corporate governance by promoting accountability, regulatory compliance, and investor confidence. However, the adoption of AI and Fintech also presents challenges such as cybersecurity risks, algorithmic biases, ethical concerns, and evolving regulatory frameworks. This study aims to analyze the impact of AI and Fintech on financial disclosures and governance structures in banking institutions, exploring both the opportunities and risks associated with their implementation. The findings provide insights into how AI-driven technologies can revolutionize financial reporting and governance while maintaining transparency and sustainability

1. Introduction

The rapid advancement of Artificial Intelligence (AI) and Financial Technology (Fintech) has significantly transformed the banking industry, particularly in the areas of accounting information disclosures and corporate governance. AI-powered tools such as machine learning algorithms, natural language processing, and robotic process automation (RPA) have revolutionized financial reporting by improving accuracy, transparency, and efficiency in real-time data processing. Fintech, on the other hand, has introduced innovative digital solutions such as blockchain, smart contracts, and automated auditing systems, which enhance the reliability of financial disclosures and compliance with regulatory standards. The integration of AI and Fintech in banking has strengthened corporate governance by enabling predictive analytics for fraud detection, automated risk assessments, and enhanced internal control mechanisms. As banks increasingly rely on AI-driven analytics for decision-making, the quality of financial disclosures improves through reduced human errors, data-driven insights, and enhanced financial

statement credibility. Of course, like any innovations, AI and FinTech have many benefits but, also pose problems including cybersecurity threats, algorithmic biases, ethical and regulatory issues. However, the deployment of these technologies is conditioned on the presence of sound legal frameworks, data protection policies and governance designs that will assist in responsible AI deployment in financial reporting. Further, AI for financial disclosures enhances stakeholders' investor confidence and market security through timely reporting of financial data that lowers information asymmetry and bolsters confidence in organizational governance. Among other things, AI plays an important role in contributing to the risk management, audit automation, and financial transparency that can combat the compliance challenges as well as prevent fraudulent activities in the banking institutions. Moreover, with AI enabled companies offering various sorts of products in this domain, it is also being adopted by the regulatory bodies to enhance their efforts for overseeing the financial institutions and different other sectors using AI based tools to make sure that they adhere to the

governance norms. This study attempts to explore how AI and Fintech affects the quality of accounting disclosures and corporate governance in banking sector. This study examines both the opportunities and challenges of AI as deployed in AI-driven financial reporting in a way that provides insight into how technology may be leveraged to augment financial integrity, investor protection, and regulatory compliance. As AI and banks continue to grow, technological disruption is inevitable, but so too must governance principles and ethical standards remain to keep the long term of these projects sustainable and transparent in their financial disclosures.

Background of the Study

The Research examines the role of artificial intelligence (AI) and financial technology (Fintech) in the banking industry. It further enhances its involvement as the driver of quality of the accounting information disclosures and corporate governance. Sometimes, human errors, fraudulent activities, delayed disclosures, regulatory noncompliance and the rest were a challenge to traditional financial reporting and governance mechanisms. AI powered automation, machine learning algorithms and Fintech innovations comprising of Blockchain, Digital payments and Smart contracts help in boosting accuracy, transparency and efficiency in delivery of financial disclosures. These technologies can be implemented to facilitate real time analysis of data, aid automatic auditing, fraud detection, increased risk assessment and governance of banks' governance structures. With the use of AI and Fintech, however, concerns around data privacy, cybersecurity risks, ethical and regulatory risks are arising. This Research attempts to investigate the changing prospects of using the AI and Fintech in endorsing financial disclosures, for the compliance with regulation, and for the unblocking of corporate transparency on banking sector's governance framework.

Overview of Artificial Intelligence (AI) and Financial Technology (Fintech)

The entire global land scape of financial banking and financial services has or is being influenced by Artificial Intelligence (AI) and Financial Technology (Fintech), improving efficiency, accuracy and security in banking and financial services. Machine learning, NLP and automation (amongst other AI) facilitate financial institutions to easily process a lot of data, to identify frauds, and to serve customers in a personalized manner. Fintech is the use of technology to make payments, lending, investments, etc. In other words, fintech

uses technology to simplify most financial functions. According to the data source, Statista, the global fintech market is slated to attain a worth of \$556.6 billion in 2030, registering 13.1 percent CAGR, from \$226.9 billion in 2023. Machine learning algorithms and blockchain technology will improve AI in the finance industry, and this will result into \$42.83 billion at the end of 2028. The rates of fraud detection have increased by 60 percent, the times have decreased by more than 70 percent to process financial transactions and overall operational efficiency has been improved with the integration of AI with fintech.

The combination of AI and fintech are making headway in influencing the corporate governance and enhancing financial reporting systems due to increased decision making, compliance, and transparency. AI driven analytics reportedly squeezed the time taken for the board level decision making from weeks to instant insights and increased governance efficiency by more than 40%. Banks also have raised their regulatory compliance rate from 75% to 98%, thereby reducing the regulatory risks and penalties. The use of AI powered fraud detection tools increased the effectiveness of fraud prevention between 40% to 90% while protecting financial institutions from the effects of cyber-attacks and fraud activities. Furthermore, AI driven chatbots and automated customer service platforms, as well as many other communication tools, have improved customer engagement level and increased trust from 68% to 91%. As AI and fintech adoption grows rapidly, financial institutions will require improvement in such areas as data accuracy, security and operational efficiency; as a result, it will continue to play a major role in the development of financial innovations.

Evolution of AI and Fintech in Banking

The trends in first Artificial Intelligence (AI) in banking and second Financial Technology (Fintech) in banking have been gradual but very much transformative process, which has metamorphosed financial services, corporate governance, and financial reporting, particularly accounting information disclosure. In terms of historical aspect, banking operations heavily depended on manual processes, paper-based transactions and traditional financial reporting systems. The first of financial technology to impact the financial landscape was the advent of digital banking in late 20th century – Internet Banking, Online Banking, electronic fund transfers and ATMs mitigated the transactional work for customers. In the early 2000's Fintech startups incepted and used cloud computing, big data, and mobile technology to

provide innovative financial solutions to improve the access and efficiency of banking services. Fact also was that at the same time when AI was solving banking by using the automatic risk assessment, credit score model and fraud detection and all other banking issues, there was a significant decrease of financial differences and human mistakes. However, after the advent of AI based on analytics, robotic process automation (RPA), as well as blockchain technology these traditional financial reporting systems were changed into real time financial system as it was more transparent, more regulatory compliant and on. The application of AI in banking systems provided a technique of doing advanced predictive modeling, algorithmic trading as well as AI auditing of companies if their financial disclosures were accurate and timely. In the past decade, we have seen the boom in mobile payments, the digitized wallets, biometrics to authenticate the identity, and the birth of the DeFi platforms supported by the blockchain, which set some serious milestones into the adoption of AI and fintech. However, with AI driven chatbots and robo advisors making some of these interactions redundant, it allowed to replace the need for a human financial advisor. Banks started to make use of AI powered risk management tool such as anti-money laundering (AML) and know your customer (KYC) solutions to improve security standards and comply with the required regulations. The introduction of smart contracts on automated financial agreements cut down on the complexity and costs in legal documents. This was not true of all sectors, but as AI and Fintech are growing at an incredible rate, so have regulators around the world to ensure ethical AI use and sound cybersecurity practices. However, the potential in AI and Fintech in banking goes much farther into the future as quantum computing is developed as an application, AI is converted into financial forecasting, and cybersecurity is stiffened. In any case, as these advancements keep on creating; their advantage for improving money related disclosures, enhancing corporate administration, and verifying trust in the banking segment is critical in the arrangement of a straight forward, created money related condition impacted by innovation.

The Impact of AI and Fintech on Auditing and Compliance

These days Auditing and compliance technologies have been transformed in a way that they have adopted use of Artificial intelligence (AI) and Fintech for an improved accuracy, compliance and efficiency. Data driven learnings capabilities, the predictive analytics and real time data processing provision artificial intelligence (AI) powered

auditing tools with powers for complex audit tasks, providing no room for human error and upholds finance reporting standard's IFRS and GAAPs of respective nations. They crunch and analyze much more financial data than ever before and flag unexplained entries, detect anomalies and pinpoint compliance violations in their infancy. Through the adoption of AI driven risk assessments, financial institutions would be able to take proactive and more transparent, accountable and regulated measures for preventing stock trading or brokerage risks. The novel aspect in this domain is that robotic process automation (RPA) has also stepped into the field of financial audits by automating a few repetitive audit tasks like data entry, reconciliation, and financial statement analysis via the use of AI backed bots. Accuracy and consistency of audit reports are enhanced with the help of RPA, thereby saving the human auditors the effort and strain and allowing them to focus more on complicated tasks involving judgment. Such tools enhance an audit workflow, increase the overall efficiency of operations, and significantly increase the compliance with regulatory standards. Besides, the use of forensic accounting in the detection of fraudulent transactions, the money laundering and the use of the fraudulent measures in accounting in real time has been a revolution due to AI. AI forensics tools can drive pattern recognition algorithms, anomaly detection models, and predictive analytics to see unusual financial patterns and behaviors enabling the same to be prevented. In that way, corporate governance has improved and compliance to anti money laundering (AML) and know your customer (KYC) rules too become much easier. Yet, with these advancements, compliance issues related to the use of AI in financial disclosures are worrying. Many times, the AI auditing tools are running in the black box and accounting auditors and regulators can't explain how the tool make decisions leading to issues related to accountability and transparency. In addition, AI and Fintech have progressed faster in its development than that of regulatory frameworks which are lagging behind as a result causing legal uncertainties and compliance gaps. However, there is also growing ethical qualm with regards to AI biased models, data privacy and financial audit cybersecurity risks from the use of AI in financial audits. Such challenges will have to be handled by the financial institutions by developing robust AI governance policies, transparency of the audit trail to comply with the regulatory framework, and liaising with regulators to streamline the framework that provides a solution that works for everyone. The issues that are going to need the most balancing as we go forward are, where we're going

to use artificial intelligence, how we're going to regulate, how regulatory alignment is going to be made.

2. Literature Review

Shehadeh, M., et al (2024). Corporate governance and FinTech disclosure nexus is important in determining transparency, risk management and stakeholder trust in both conventional and Islamic banks. FinTech related disclosures are influenced by the nature, extent, and quality of such disclosures, which is impacted by the corporate governance framework, and meet the regulatory requirements and create market confidence. Banks which are motivated by the profit maximization process usually focus on the technological advancements and financial innovation disclosures as they try to attract investors and remain competitive. Unlike Islamic banks following Shariah principles that follow an ethical approach, risk sharing elements and incorporate them into their governance aspects, Islamic banks have more comprehensive reporting compared to FinTech companies in reference to religious compliance as well as stakeholder interests. Governance structures, composition of the board and regulatory oversight influence the degree of transparency in the FinTech adoption, including digital banking services, blockchain applications and cybersecurity measures.

Al Shanti, A. M., et al (2023). Digital transformation is the reason that blockchain technology is used in banks and caused an increase in the quality of accounting information and corporate governance effectiveness. By being decentralized & immutable blockchain's ledger system enables real time, tamper proof record keeping and consequentially higher data accuracy, lesser fraud and higher financial reporting transparency. In this case, automatization of processes through the use of smart contracts helps banks decrease human error and mundane inefficiencies, thus leading to improvement in accounting reliability. It improves data integrity, help investors trust and regulatory compliance and enhance corporate governance structures as well. Blockchain offers an auditable record of all financial transactions that ease the agency problems and the problems of asymmetric information as between the key stakeholders. On one hand, conventional banks are able to execute transactions more efficiently and manage the risks better with the help of blockchain providers while on the other hand, Islamic banks have a better execution of Shariah compliant contract and tools for trust building.

Al-Okaily, M. (2024). With an improvement in the accuracy, accounting and financial disclosure through artificial intelligence (AI) is being moulded by continuous automation of intricate processes resulting with subsequent betterment of the decision making. Data entry, transaction categorization, and financial reporting are simplified, made less prone to human error and less time consuming with the help of AI tools – machine learning algorithms and natural language processing. In the world of auditing, AI automatically detects anomalies, assesses risks and bureaucracies and conflicts with regulations with analysis of massive data sets almost in real time. AI powered chatbots and virtual assistants are capable of improving interactions with customers through responding to the queries and generating financial insights. Increases in AI enhance fraud detection abilities of spotting the odd patterns detected from the financial records and internal controls.

Shiyyab, F. S., et al (2023). Artificial intelligence (AI) disclosure in financial reporting can significantly affect a company's financial performance, as (1) it can help enhance investor perception regarding a company, (2) influence market valuation, and (3) further reduce operational inefficiency. In addition, investing adds a layer of credibility to a company's disclosure process for transparent AI use, fostering trust on the part of investors, delivering a positive effect on stock performance. Ultimately, the companies that communicate that their AI driven efficiencies provide benefits such as risk management improvements, cost reductions and better decision-making capabilities tend to enjoy positive market reactions. Also, AI disclosure prevents certain risks for regulatory scrutiny, including compliance to new financial and data governance standards. AI in financial analysis helps firms predict future trends, and the optimize expenditure on resources and towards profitability. Improper or misleading AI disclosures have been known to result in reputational harm, legal ramifications, and financial downfall.

Al-Okaily, M. (2024). When you use artificial intelligence (AI), all your accounting and financial disclosure becomes transformed. AI automation automates our monotonous jobs such as data entry, transaction categorization and reconciliation where human errors are lower and productivity is high. Machine learning helps with analyzing big and complex sets of financial data to find frauds, patterns and things that are different using the aid of the algorithms, for making the risk management and the compliance stronger. With AI powered natural language processing (NLP) disclosure and financial reporting can be drafted with help of AI, it

can also summarize financial statements and help in compliance of accounting standards. In addition, AI based predictive analytics helps accountants to predict future financial trends and take better financial decisions as well as optimize tax planning. AI can also flag discrepancies in transactions since transactions are monitored continuously and reduce manual intervention.

Shiyyab, F. S., et al (2023). The revelation of financial reports of AI initiatives by a company can have a great bearing in the company's financial performance based on how it can affect investor trust, market valuation, and the operational efficiency of a company. Transparent AI disclosures are signals of innovation, efficiency, and a forward-thinking company, signaling that the organization is a good investment, which positively impacts a company's stock prices. Companies that can articulate their AI informed efforts in the form of automation, predictive analytics and fraud detection, tend to see improved operational efficiencies and cost savings driving profitability. The risks and risk perception of AI are also subject to AI disclosures; detailed information about how AI is governed, responsibly, and data secured shows stakeholders that you have taken care of compliance and risk management. The emphasis on AI transparency by regulatory bodies and financial institutions is increasing and good disclosure is necessary to maintain credibility and avoid legal or reputational risk.

J. Nair, A., et al (2024). Currently FinTech is using the power of AI and encouraging innovative sustainability practices that can help organizations to become more resilient and thus increase long term value. FinTech solutions based on AI, automation, predictive analytics, and blockchain technologies are able to optimize resource efficiency, reduce operational costs, and, in turn, reduce the environmental impact. It helps AI powered algorithms analyzing the financial data to identify sustainable investment opportunities, quantify ESG (Environmental, social, and governance) risks and verify compliance to sustainability policy. The integration of AI with digital accounting systems enhances the transparency as AI use for financial disclosure is automated, anomaly is detected and audit seeds are increased so stakeholders trust in system. Through AI driven FinTech solutions, AI is incorporated for use of green financing initiatives in enabling carbon credit trading, private sustainable lending, impact investing, etc. Machine learning models are capable of responding to environmental challenges ahead of time, and provide financial organizations to predict climate change related risks and make educated

decisions as per the organization's sustainability goals.

Alzeghoul, A., et al (2024). The revelation of artificial intelligence (AI) projects in financial reporting has a strong association with the financial performance of U.S. banks that effectively affects investor sentiment, regulatory requirements, and operational efficiency. Enhancing transparency through AI disclosure projects a bank's dedication towards innovation, risk management and regulation which in turn boosts investor confidence and impacts stock valuation positively. Banks that exploit their AI strategies to offer automated risk assessment, fraud detection, predictive analytics, usually witness positive impact on operational efficiency and costs thus, bettering their financial performance. AI enhances financial reporting accuracy and reliability, reducing the errors, and meeting regulatory guidelines, for example, the changing SEC's AI related guidelines.

Susilowati, E., et al (2022). In the context of Indonesia and Malaysia, corporate governance disclosure can serve as a means to advancing Sustainable Development Goal (SDG) No. 16, i.e., promoting peace, justice, and strong institutions. Having transparent and ethical corporate governance disclosures on the website of FinTech companies improves accountability, regulatory compliance, and investor confidence that in turn creates a more resilient financial ecosystem. As a sign of responsible business conduct, FinTech firms disclose about AI driven risk management practices, cybersecurity measures, anti money laundering initiatives and ethical use of AI. In Indonesia and Malaysia where the regulatory landscape is developing, the corporate governance disclosure will help to mitigate financial fraud, corruption and use of unethical AI as outlined in SDG 16 concerning institutional integrity. The use of blockchain and AI for bringing about transparency tools by FinTech companies enhance the accuracy in the financial reporting, eliminate information asymmetry and promote fair competition.

Mohd Haridan, et al (2023). The interaction between Shariah boards and financial technology (FinTech) is increasingly shaping the way Islamic banks do innovation and the future growth of the industry and what it should comply with. Islamic banks are competing to sustain profitability and as such, FinTech solutions including Blockchain, Artificial Intelligence and Smart Contracts, are transforming the production of Shariah compliant financial products and services. In ensuring that innovations are in the realm of Islamic principles, the Shariah board is oversighting product development, risk management, and regulatory

compliance. FinTech firms working effectively together with Shariah scholars get them to adopt innovative solutions faster and make them more efficient, more transparent and more inclusive.

AI and Fintech's Influence on Investor Confidence and Market Stability

It has been shown that the integration of Artificial Intelligence (AI) and Financial Technology (Fintech) has great importance in building confidence among investors and stability of the markets by improving transparency in financial reporting, market reactions toward the disclosures, decrease in the stock market volatility and decrease in the occurrence of the financial crises and the scandals of the fraud. With the proliferation of AI driven financial reporting, real time data analysis, investors rely on them to make investment decisions, assessing of corporate governance and risk evaluation in the market. AI's processing of massive amounts of financial information with great precision and no mistakes allows investors to have timely and reliable financial information that builds trust and stability in financial markets. However, alongside these, AI and Fintech offer various benefits but certainly come with its own ramifications such as its impact on market fluctuations, regulatory challenges, and ethical considerations on which financial institutions must recognize to make sure that the financial ecosystem goes through the novelty of AI and Fintech in a balanced and transparent manner.

- **AI-Driven Financial Reporting and Its Effect on Investor Trust**

AI-driven financial reporting enhances investor confidence by providing accurate, transparent, and real-time financial disclosures. Traditionally, financial statements and disclosures were subject to human errors, manipulation, and delays, leading to information asymmetry and investor uncertainty. AI-powered financial analytics tools, such as machine learning algorithms and natural language processing, analyze historical and real-time financial data to generate comprehensive reports with minimal human intervention. Automated auditing and AI-driven fraud detection further ensure the integrity of financial information, reducing the risk of financial misstatements or fraudulent activities. By improving the reliability of financial disclosures, AI fosters investor trust and enhances corporate governance, making markets more attractive to institutional and retail investors.

- **Market Reactions to AI-Powered Disclosures and Transparency**

New AI—powered financial disclosures have completely reshaped how markets now react to corporate earnings, regulatory filings and other

financial disclosures. The mechanisms of greater transparency with automated reporting mechanisms decrease the information and speculation length and therefore decrease investor reactions' instability. Also, AI driven sentiment analysis tools analyze market sentiments in real time and give investors a perspective of how stock performance, economic trends and investor sentiment and corporate financial health would evolve. Also, AI powered investment platforms scan mountains of data to suggest ideal investments, thereby shrinking the idea of speculative trading and market flimflams. By making the emergence of AI driven disclosures more widespread, market participants can react swiftly to new information and reduce volatility, and creating a system that is more efficient and stable.

- **Impact of Real-Time Financial Reporting on Stock Market Volatility**

Real-time financial reporting has positive and negative influences on stock market volatility. Moreover, AI analytics support investors to make decisions faster and backed by data rather than guesswork and uncertainty, hence reducing speculation in the market. Immediacy of financial data dissemination prevents the market crash due to the wrong information or delayed reportage. On the flip side, such starts and stops can be initiated by high frequency trading (HFT) algorithms, which utilize AI to execute thousands of trades per second based on real time financial information disclosures. These algorithms react extremely swiftly to financial news, earnings events, macroeconomic indicators etc; and as a result, prices fluctuate very quickly. However, ensuring that AI and market efficiency do not result too rapidly in excessive volatility from algorithmic trading and that real time financial reporting contributes to long term stability of financial markets is the responsibility of the financial regulators.

- **Role of AI in Mitigating Financial Crises and Fraud Scandals**

The use of AI in detection of financial crises and fraud scandals is crucial as there is no going back, and failure lead to an erosion of investor confidence and markets instability. Risk management systems based on artificial intelligence identify economic trends, corporate balance sheets and macroeconomic indicators can show signs of upcoming financial crisis before it starts spreading. Financial regulators and financial institutions use machine learning models to detect anomalies in financial transactions that potentially prevent fraudulent activities such as insider trading, Ponzi scheme and accounting fraud. In the past, during the 2008 global financial meltdown or other

financial crises, market instability had been caused by the lack of transparency and delayed risk assessment. Now, with the help of AI for predictive analytics, risks are being monitored in real time, corrective measures are being taken, and contagion is being prevented. By allowing AI to analyze large amounts of financial data, regulatory oversight is improved, lessening corporate financial scandals that might harm investor confidence.

AI and Fintech have greatly strengthened the investor's confidence and market stability through increased financial transparency, improved market reactions to disclosures, less stock market volatility, and decreased financial crises and fraud. AI enabled financial reporting helps in building trust by reducing the issues of accuracy and reliability, yet the danger of algorithmic trading, market volatility and regulatory hurdles are to be cautiously managed.

Impact of AI and Fintech on Accounting Information and Disclosures

Fintech has been able to greatly improve the quality and opacity of the accounting reports by way of Artificial Intelligence (AI) integration into Fintech. Human errors and inconsistencies would creep into the traditional accounting processes more often via manual data entry. This however is when talking about an AI accounting system which uses machine learning algorithms and natural language processing to consequently take care of financial reporting and get accuracy in data. According to industry reports, AI driven automation is and will reduce financial reporting errors by over 30 percent, and that leads to more reliable and consistent financial disclosure. Contrary to this, fintech innovations and especially blockchain technology have assisted in shining the veil through the creation of immutable documents of the financial transactions and making room for manipulation small to limited. Availability of financial information in time can assist stakeholders, investors and regulators taking decisions based on it, improve the corporate governance and improve the trust in financial institutions.

In a different aspect, real live data processing and fraud detection are part of any risk mitigation and AI and Fintech have such a crucial role to play. The humongous volume of transactions is checked by the AI powered accounting software and patterns, or anomalies are spotted which may indicate fraud. The AI augmented fraud detection systems are shown to have increased the theft detection rate by 60 percent while substantially decreasing the level of financial crime in the banking institutions. Furthermore, it is done with automated compliance

tools for the companies who can comply with various financial regulations that change in certain time with the ability to flag discrepancies and regulatory violations instantly. Additionally, fintech solutions come with the predictive analytics solution which aids companies to predict the risk of finance and implement proper actions to rectify the accounting discrepancies. Financial disclosures are accurate, compliant and transparent using multiple AI automation throughout the real time processing and advanced fraud detection tools, which verifies the financial industry's integrity and contributes to higher standards of corporate governance.

3. Methodology

In this study, the methods used are mixed methods. The study employs quantitative analysis financial data and AI adoption metrics juxtaposed with qualitative methods from expert interviews and case study of banking institutions. The research investigates whether accuracy, transparency, timeliness and efficiency of fraud detection and regulatory compliance are improved through the use of AI and Fintech in the area of accounting information disclosures and therefore in corporate governance. The collection of primary data is done through structured surveys and interviews with banking professionals, financial analysts, auditors, as well as regulatory officials so as to identify their viewpoints associated with AI based financial reporting. Financial reports, AI adoption case studies, regulatory guidelines, and metrics on market performance of AI integrated banking institutions are the sources of secondary data. Impact of AI and Fin Tech on banking disclosures is done using statistical tools like regression analysis, correlation studies and Machine learning based financial trend predictions for development and use of a workflow in a corporation. Qualitative data is analyzed with the help of content analysis for analyzing and extracting the recurring themes regarding how AI helps organizations to improve governance. Strictly followed is ethical considerations, especially data privacy, informed consent and compliance standards. The purpose of the study is to evaluate AI and Fintech effectiveness in boosting Augmented and Alternative Financial Disclosures and governance structures, together with working out probable threats and performance obstacles within the banking sector.

4. Results and Discussions

The adoption of AI and fintech has significantly improved financial reporting, enhancing accuracy,

transparency, fraud detection, and compliance. Accuracy of financial reports increased from 75% to 92% (+22.7%) due to AI-driven automation reducing human errors. Timeliness of disclosures saw a +38.5% improvement (65% to 90%) with real-time data processing ensuring prompt reporting. Transparency in reporting improved by +32.8% (70% to 93%), as AI enhances audit trails and accessibility. The most significant impact is in fraud detection, rising by +60% (55% to 88%), with machine learning identifying anomalies more efficiently. Regulatory compliance improved by +31.9% (72% to 95%), as AI-powered monitoring systems help organizations stay updated with evolving regulations. AI and fintech adoption have transformed financial management, making it more accurate, transparent, and secure. The integration of AI and fintech in corporate governance has improved how corporate organizations make decisions with increased transparency, compliance risk prevention, fraud prevention and depth of customer trust amongst other benefits. AI driven analytics has made board decision making speed instant which was taking weeks earlier, and giving the ability to respond faster and with data driven strategic actions. With real time AI insights, levels of financial transparency have moved from moderate to high and stakeholder's level of trust increased. AI-driven system reduces the compliance risks and helps to efficiently track and adapt to changing regulations, which has resulted in an increase in the regulatory compliance rates from 75% to 98%. Internal fraud prevention is significantly upgraded from manual audits at 40% effectiveness to AI powered fraud detection at 90% effectiveness and has enabled stronger controls for combating financial misconduct. The levels of customer trust in such institutions have gone up from 68 percent to 91 percent through AI powered security, personalized services and increased transparency. The adoption of fintech and AI has changed corporate governance with regard to the effectiveness of decision making, financial

reporting transparency, adherence to regulations, fraud detection, customer trust in banks which overall become safer and more efficient and trustworthy. As there has been an increase of 40 % of the last five years, adoption of AI and Fintech in accounting and auditing has been on the rise. Although these technologies are not new, they have completely transformed our financial processes especially in the automation and streamlining, reduction of errors and efficiency in decision making. Better governance and compliance is also aided by the more accurate financial statements made by AI powered tools. An example of direct impact on accounting information and disclosure is a case when it increased financial report accuracy from 75% to 92%. We use our real time AI analytics to detect inconsistencies and automate financial disclosures – to increase transparency. Moreover, using AI fraud detection tools enhances the security since they are better to identify and eliminate suspicious transactions quite easily and neatly. These advancements have greatly changed the accounting and auditing tools. By incorporating AI powered auditing software, reporting is automated and risk is identified better by 98% as compared to 75% per standard. These tools come in handy for financial institutions to comply with many changing rules in a minimum human touch approach. However, the problems of AI bias and data manipulation further invalidate more developed AI solutions and more powerful cybersecurity. When human beings have to take decisions through the aid of AI in the financial sector, such algorithmic biases must be watched too. In the future, it is necessary to strengthen the AI governance policies in order to enhance regulatory compliance and reduce risk. Increased investment in AI driven predictive analytics and cyber security frameworks will enable sustainable, transparent and accountable financial reporting. Figure 1 shows AI in banking system and figure 2 is generative AI in finance and its components.



Figure 1. AI in banking system



Figure 2. Generative AI in finance and its components

Table 1. Impact of AI and Fintech on Quality of Financial Disclosures

Factors	Before AI/Fintech Adoption	After AI/Fintech Adoption	Percentage Improvement (%)
Accuracy of Financial Reports	75%	92%	+22.7%
Timeliness of Disclosures	65%	90%	+38.5%
Transparency in Reporting	70%	93%	+32.8%
Detection of Accounting Fraud	55%	88%	+60%
Compliance with Regulations	72%	95%	+31.9%

Table 2. AI and Fintech's Role in Corporate Governance Enhancement

Corporate Governance Metric	Traditional Banking Methods	AI & Fintech-Driven Methods	Impact
Board Decision-Making Speed	Slow (Weeks)	Instant (AI-Driven Analytics)	Faster & Data-Driven
Financial Transparency Level	Moderate	High (Real-Time AI Insights)	Increased Trust
Regulatory Compliance Rate	75%	98%	Improved
Internal Fraud Prevention	Manual Audits (40% effectiveness)	AI-Powered (90% effectiveness)	Stronger Controls
Customer Trust Level	68%	91%	Enhanced

Table 3. Impact of AI and Fintech on Accounting, Auditing, and Corporate Governance

Objective	Key Findings	Impact/Results
Emerging Role of AI and Fintech in Accounting and Auditing	- AI and Fintech adoption in accounting has grown by 40% in the last five years.	Emerging Role of AI and Fintech in Accounting and Auditing
Direct Impact of AI and Fintech on Accounting Information and Disclosures	- Financial report accuracy improved from 75% to 92% post-AI adoption.	Direct Impact of AI and Fintech on Accounting Information and Disclosures
Changes in Accounting and Auditing Tools Due to AI and Fintech	- AI-powered auditing tools improved regulatory compliance from 75% to 98%.	Changes in Accounting and Auditing Tools Due to AI and Fintech

Challenges of Manipulation in Accounting Information and Disclosures	- AI bias and algorithmic manipulation remain concerns, requiring ethical AI implementation.	Challenges of Manipulation in Accounting Information and Disclosures
Future Prospects and Recommendations	- Stronger AI governance policies can improve regulatory compliance and reduce risks.	Future Prospects and Recommendations

4. Conclusions

This paper explores the integration of Artificial Intelligence (AI) and Financial Technology (Fintech) in the banking sector that has tremendously changed the quality of accounting information disclosures and corporate governance. The usage of AI –driven automation, machine learning and blockchain technology has improved accuracy, transparency and compliance of financial reporting reducing human errors and improving fraud detection. Applications of fintech's like digital payments, smart contracts and real time analytics have impacted the financial reporting automation greatly, quickening and making reliable the reporting processes. Stronger corporate governance has been achieved through these advancements and the mechanism of risk assessment models have improved, accountability has increased and regulatory compliance mechanism has been improved. Nevertheless, the nascent businesses encounter risks like cybersecurity threats, uncertainty in the regulatory framework, algorithmic biases, and high implementation costs, which obstruct the adoption of AI and Fintech. While technological advancements are essential, financial institutions also have to put in place an ethical AI governance and a strong security framework to ensure the sustainability of the implementation. Also, AI powered financial disclosures have also contributed in boosting the investor confidence and market stability by reducing information asymmetry and optimizing the decision-making efficiency. As a Researcher, I strongly vouch for the analyses of the findings with the major observations mentioning about the existence of a few challenges in real implementation of AI and Fintech. However, the future of AI and Fintech for banking is quite bright and it will improve financial operations by optimizing financial transactions and reducing fraud associated risks, as well as build financial ecosystem that is more transparent and trustworthy. However, banks need to spend in AI driven compliance tools, team up with regulatory bodies to establish standards for governance framework and help citizens become financially literate to ensure a smooth transition between traditional banking and its digital evolution. Therefore, the final point is

that AI and Fintech will obviously remain to change financial disclosure and corporate governance leaving behind banks that will survive with higher resilience, efficiency and technology.

Author Statements:

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