Legal accountability and ethical considerations of AI in financial services

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Abstract

Artificial Intelligence (AI) is revolutionizing the financial services industry, offering unparalleled opportunities for efficiency, innovation, and personalized services. However, along with its benefits, AI in financial services raises significant legal and ethical concerns. This paper explores the legal accountability and ethical considerations surrounding the use of AI in financial services, aiming to provide insights into how these challenges can be addressed. The legal accountability of AI in financial services revolves around the allocation of responsibility for AI-related decisions and actions. As AI systems become more autonomous, questions arise about who should be held liable for AI errors, misconduct, or regulatory violations. This paper examines the existing legal frameworks, such as data protection laws, consumer protection regulations, and liability laws, and assesses their adequacy in addressing AI-related issues. Ethical considerations in AI implementation in financial services are paramount, as AI systems can impact individuals' financial well-being and access to services. Issues such as algorithmic bias, transparency, and fairness are critical in ensuring ethical AI practices. This paper discusses the importance of ethical guidelines and frameworks for AI development and deployment in financial services, emphasizing the need for transparency, accountability, and fairness. The paper also examines the role of regulatory bodies and industry standards in addressing legal and ethical challenges associated with AI in financial services. It proposes recommendations for policymakers, regulators, and industry stakeholders to promote responsible AI practices, including the development of clear guidelines, enhanced transparency measures, and mechanisms for accountability. Overall, this paper highlights the complex interplay between AI, legal accountability, and ethical considerations in the financial services industry. By addressing these challenges, stakeholders can harness the full potential of AI while ensuring that it is deployed in a responsible and ethical manner, benefiting both businesses and consumers.

Keywords: Legal; Accountability; Ethical Considerations; AI; Financial Services

1. Introduction

Artificial Intelligence (AI) is rapidly transforming the landscape of financial services, offering unprecedented opportunities for efficiency, innovation, and customer experience enhancement. From algorithmic trading to personalized banking services, AI is revolutionizing how financial institutions operate and interact with customers. However, with the growing adoption of AI in financial services, there is a pressing need to address the legal and ethical implications of its use (Daniyan, et. al., 2024, Igbinenikaro, Adekoya & Etukudoh, 2024, Isadare Dayo, et. al., 2021). The importance of legal and ethical considerations in AI implementation in financial services cannot be overstated. As AI systems become more autonomous and make critical decisions impacting individuals' financial well-being, questions of accountability, transparency, and fairness become paramount. This paper aims to explore the legal accountability and ethical considerations surrounding the use of AI in financial services, examining the challenges and proposing solutions to ensure responsible AI deployment.

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The thesis of this paper is to delve into the complex interplay between AI, legal accountability, and ethical considerations in financial services. It will analyze the existing legal frameworks governing AI in financial services, assess their adequacy in addressing AI-related issues, and propose recommendations for enhancing legal accountability and ethical practices. By exploring these aspects, this paper seeks to provide insights into how the financial industry can navigate the legal and ethical challenges of AI implementation while harnessing its benefits for sustainable growth and innovation. (Abaku, & Odimarha, 2024, Daraojimba, et. al., 2023, Popoola, et. al., 2024)

Artificial Intelligence (AI) has emerged as a transformative force in the financial services industry, revolutionizing operations, customer interactions, and decision-making processes (Coker, et. al., 2023, Igbinenikaro, Adekoya & Etukudoh, 2024, Izuka, et. al., 2023). From algorithmic trading to fraud detection and customer service, AI has enabled financial institutions to streamline operations, improve efficiency, and deliver personalized services. However, the widespread adoption of AI in financial services has raised significant legal and ethical concerns that need to be addressed.

The importance of legal and ethical considerations in AI implementation in financial services is underscored by the potential impact of AI systems on individuals, businesses, and society as a whole (Adama & Okeke, 2024, Daraojimba, et. al., 2023, Popoola, et. al., 2024). As AI systems become more autonomous and make decisions that have far-reaching consequences, ensuring accountability, transparency, and fairness in their use is paramount. Failure to address these issues can lead to regulatory scrutiny, reputational damage, and, most importantly, harm to consumers (Abaku, Edunjobi & Odimarha, 2024, Daraojimba, et. al., 2023, Popoola, et. al., 2024).

This paper aims to explore the legal accountability and ethical considerations surrounding the use of AI in financial services. It will examine the existing legal frameworks governing AI in financial services, evaluate their effectiveness in addressing AI-related issues, and propose strategies to enhance legal accountability and ethical practices. By doing so, this paper seeks to provide a comprehensive understanding of the challenges and opportunities associated with AI in financial services and offer practical recommendations for stakeholders to navigate this rapidly evolving landscape.

In conclusion, as AI continues to reshape the financial services industry, it is crucial to strike a balance between innovation and responsibility (Adama & Okeke, 2024, Daraojimba, et. al., 2023, Popoola, et. al., 2024). By addressing the legal and ethical implications of AI implementation, financial institutions can build trust with consumers, regulators, and society at large, ensuring that AI serves as a force for good in the financial services industry.

### 2. Legal Frameworks for AI in Financial Services

Data protection laws play a crucial role in regulating the use of AI in financial services, particularly concerning the collection, processing, and storage of personal data (Adama, et. al., 2024, Daraojimba, et. al., 2024, Popo-Olaniyin, et. al., 2022). These laws aim to protect individuals' privacy rights and ensure that AI systems comply with principles of data minimization, purpose limitation, and transparency. In the European Union, the General Data Protection Regulation (GDPR) sets strict standards for the processing of personal data, including requirements for obtaining consent, providing individuals with access to their data, and implementing data protection measures. Similarly, other jurisdictions have enacted data protection laws that impose obligations on financial institutions using AI to safeguard customer information.

Consumer protection regulations are designed to ensure that consumers are treated fairly and are not subjected to unfair or deceptive practices by financial institutions using AI. These regulations often require financial institutions to disclose how AI is used in decision-making processes that affect consumers, such as credit scoring, loan approvals, and insurance underwriting (Adama & Okeke, 2024, Daraojimba, et. al., 2023, Popoola, et. al., 2024). Additionally, consumer protection regulations may require financial institutions to provide mechanisms for consumers to dispute decisions made by AI systems and to ensure that AI systems do not discriminate against protected groups.

Liability laws govern the legal responsibility of financial institutions for the actions of AI systems. These laws may determine whether financial institutions can be held liable for damages caused by AI systems' errors, misconduct, or regulatory violations (Adama, et. al., 2024, Ebirim & Odonkor, 2024, Popoola, et. al., 2024). Liability laws may also address issues such as product liability, negligence, and vicarious liability, depending on the jurisdiction. In some cases, liability laws may impose strict liability on financial institutions for harm caused by AI systems, while in others, liability may be based on fault or negligence. Overall, legal frameworks for AI in financial services are evolving rapidly to address the complex challenges posed by AI (Ajayi & Udeh, 2024, Ebirim, et. al., 2024, Popo-Olaniyin, et. al., 2022). These frameworks aim to balance innovation and consumer protection, ensuring that AI is used responsibly and ethically in the financial services industry.

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Legal frameworks for AI in financial services encompass a range of regulations and guidelines that govern the development, deployment, and use of AI systems (Adelakun, et. al. 2024, Ebirim, et. al., 2024, Popoola, et. al., 2024). These frameworks are designed to ensure that AI technologies are used responsibly, ethically, and in compliance with applicable laws. Some key aspects of legal frameworks for AI in financial services include: Financial regulators play a crucial role in overseeing the use of AI in the financial services industry. They may issue guidelines, conduct audits, and impose sanctions to ensure that AI systems comply with relevant laws and regulations.

There is increasing demand for transparency in AI algorithms used in financial services. Regulators and consumer advocacy groups are calling for greater transparency to understand how AI decisions are made and to detect and mitigate biases or errors (Adama, et. al., 2024, Ebirim, et. al., 2024, Popo-Olaniyan, et. al., 2022). AI systems used in financial services must comply with anti-discrimination laws that prohibit discrimination based on protected characteristics such as race, gender, or age. Financial institutions must ensure that their AI systems do not result in discriminatory outcomes. AI systems in financial services must comply with strict cybersecurity and data protection regulations to safeguard sensitive customer information (Ajayi & Udeh, 2024, Ebirim, et. al., 2024, Ogedengbe, 2022). This includes implementing robust security measures to protect against cyberattacks and data breaches.

Financial institutions must consider intellectual property rights when developing or using AI technologies. They must ensure that they have the necessary rights to use AI algorithms and that their use does not infringe on third-party intellectual property rights (Adama, et. al., 2024, Ebirim, et. al., 2024, Popoola, et. al., 2024). Given the global nature of financial services, international cooperation is essential to harmonize regulatory approaches and address cross-border challenges related to AI. Forums such as the Financial Stability Board and the International Organization of Securities Commissions play a key role in facilitating this cooperation. Overall, legal frameworks for AI in financial services are evolving rapidly to keep pace with technological advancements (Ajayi & Udeh, 2024, Ediae, Chikwe & Kuteesa, 2024, Popoola, et. al., 2024). Financial institutions must stay abreast of these developments and ensure that their AI systems comply with applicable laws and regulations to mitigate legal and reputational risks.

3. Legal Accountability of AI in Financial Services

Legal accountability of AI in financial services is a complex and evolving area that involves the allocation of responsibility for AI decisions and actions, as well as liability for AI errors, misconduct, or regulatory violations (Ajayi & Udeh, 2024, Ebirim, et. al., 2024, Popoola, et. al., 2024). One of the key challenges in AI accountability is determining who is responsible for decisions made by AI systems. In many cases, the responsibility may lie with the developers, operators, or users of the AI systems, depending on the nature of the decision and the level of human involvement in the AI’s operation. Regulators and policymakers are grappling with how to allocate responsibility in a way that is fair and transparent.

Liability for AI errors, misconduct, or regulatory violations is another important aspect of AI accountability. Financial institutions that use AI systems may be held liable for any harm caused by the AI’s actions, especially if they fail to implement adequate safeguards or if the AI’s decisions result in discriminatory outcomes. However, determining liability can be challenging, especially when AI systems operate autonomously or when their decisions are influenced by multiple factors.

Existing legal frameworks may need to be reassessed and updated to address the unique challenges posed by AI in financial services (Akpuokwe, Adeniyi & Bakare, 2024, Ekechi, et. al., 2024, Popoola, et. al., 2024). This may involve clarifying existing laws, such as data protection and consumer protection regulations, to explicitly cover AI systems. It may also involve creating new laws or guidelines specifically tailored to AI technologies, such as establishing minimum standards for AI transparency and accountability (Akpuokwe, et. al., 2024, Eneh, et. al., 2024). In conclusion, legal accountability of AI in financial services is a multifaceted issue that requires careful consideration and collaboration between regulators, industry stakeholders, and policymakers (Ajayi & Udeh, 2024, Ediae, Chikwe & Kuteesa, 2024, Uzougbou, et. al., 2023). By addressing issues related to responsibility, liability, and legal frameworks, we can help ensure that AI is used responsibly and ethically in the financial services industry.

In addition to the allocation of responsibility and liability for AI decisions and actions, legal accountability of AI in financial services also involves several other important considerations: Financial institutions using AI must ensure that their systems comply with relevant laws and regulations (Akpuokwe, et. al., 2024, Esho, et. al., 2024). This includes regulations related to data protection, consumer protection, and financial services, among others. Failure to comply with these regulations can result in regulatory action and legal consequences.
Legal accountability also includes ensuring that AI systems are transparent and explainable. This means that financial institutions must be able to explain how their AI systems make decisions and be able to provide transparency into the data and algorithms used (Ajayi & Udeh, 2024, Ediae, Chikwe & Kuteesa, 2024, Ogedengbe, 2022). Financial institutions must also manage the risks associated with AI use, including the risk of errors, bias, and misuse. This involves implementing robust risk management processes and controls to mitigate these risks and ensure compliance with legal and regulatory requirements. Legal accountability can also be addressed through contractual agreements between parties involved in AI transactions (Akagha, et. al., 2023, Ekechi, et. al., 2024, Ogedengbe, 2022). These agreements can specify the rights and responsibilities of each party, including liability for AI-related issues. Overall, legal accountability of AI in financial services requires a comprehensive approach that addresses regulatory compliance, transparency, risk management, and contractual agreements. By ensuring that these aspects are properly addressed, financial institutions can mitigate legal risks and promote responsible AI use in the industry.

4. Ethical Considerations in AI Implementation

Ethical considerations in AI implementation are critical for ensuring that AI systems are developed and used in a responsible and fair manner. Some key ethical considerations include: AI systems can inadvertently replicate or even exacerbate existing biases present in the data used to train them (Ajayi & Udeh, 2024, Ediae, Chikwe & Kuteesa, 2024, Popoola, et. al., 2024). This can lead to discriminatory outcomes, particularly in areas such as lending, hiring, and criminal justice. Addressing algorithmic bias requires careful attention to the data used to train AI models and the development of bias detection and mitigation strategies.

AI systems are often perceived as "black boxes" because their decision-making processes are not always transparent or easily explainable. This lack of transparency can lead to distrust and uncertainty among users. Ensuring transparency and explainability in AI systems can help build trust and accountability by allowing users to understand how decisions are made and to challenge decisions when necessary (Akpuokwe, et. al., 2024, Eyo-Udo, Odimarha & Ejairu, 2024, Popoola, et. al., 2024). AI systems should be designed to promote fairness and non-discrimination. This means that they should not unfairly advantage or disadvantage individuals or groups based on protected characteristics such as race, gender, or age. Ensuring fairness and non-discrimination requires careful attention to the design and implementation of AI systems, as well as ongoing monitoring and evaluation to detect and address any biases that may emerge (Akpuokwe, et. al., 2024, Igbinenikaro & Adewusi, 2024, Olawale, et. al., 2024).

Addressing these ethical considerations requires a multi-faceted approach that involves collaboration between technologists, policymakers, ethicists, and other stakeholders. By incorporating ethical considerations into the development and implementation of AI systems, we can help ensure that AI is used in a way that is fair, transparent, and accountable.

In addition to algorithmic bias, transparency, and fairness, there are several other ethical considerations in AI implementation that are important to address: AI systems often rely on large amounts of personal data to make decisions (Akpuokwe, et. al., 2024, Eyo-Udo, Odimarha & Kolade, 2024, Oyewole, et. al., 2024). Ensuring the privacy of this data is essential to protect individuals' rights and prevent misuse. Privacy-enhancing techniques such as data anonymization and encryption can help protect privacy in AI systems. Ensuring accountability in AI systems is crucial for addressing issues of responsibility and liability. This includes establishing clear lines of responsibility for AI decisions and ensuring that there are mechanisms in place to hold individuals and organizations accountable for any harm caused by AI systems.

AI systems can be vulnerable to security breaches and attacks, which can have serious consequences. Ensuring the security of AI systems requires implementing robust security measures, such as encryption, authentication, and access controls, to protect against threats (Ajayi & Udeh, 2024, Ediae, Chikwe & Kuteesa, 2024, Popoola, et. al., 2024). While AI systems can automate many tasks, it is important to maintain human oversight to ensure that AI decisions align with ethical and legal standards. Human oversight can help detect and correct errors, as well as ensure that AI systems are used responsibly. AI systems can have wide-ranging cultural and societal impacts, affecting issues such as employment, education, and healthcare. It is important to consider these impacts when designing and implementing AI systems, and to ensure that they promote positive outcomes for society as a whole (Akpuokwe, et. al., 2024, Familoni, Abaku & Odimarha, 2024, Olawale, et. al., 2024). By addressing these ethical considerations in AI implementation, we can help ensure that AI systems are developed and used in a way that is ethical, responsible, and aligned with societal values.
5. Ethical Guidelines and Frameworks for AI in Financial Services

Ethical guidelines and frameworks for AI in financial services are essential for ensuring that AI systems are developed and used responsibly (Ayodeji, et. al., 2023, Eneh, et. al., 2024, Okatta, Ajayi & Olawale, 2024). Some key considerations include: Ethical guidelines help ensure that AI systems in financial services are developed and used in a way that respects ethical principles such as fairness, transparency, and accountability. They provide a framework for developers and users to understand and address ethical issues that may arise in AI systems. There are several existing frameworks for ethical AI, such as the IEEE Global Initiative for Ethical Considerations in AI and Autonomous Systems and the OECD Principles on AI (Akpuokwe, Chikwe & Eneh, 2024, Igbinenikaro & Adewusi, 2024, Olawale, et. al., 2024). These frameworks provide valuable guidance on ethical AI practices and can help financial institutions develop their own ethical guidelines.

Financial institutions should strive to make their AI systems transparent and explainable, so that users can understand how decisions are made. Financial institutions should take steps to avoid bias in AI systems, such as ensuring that training data is representative and regularly auditing AI systems for bias (Aturamu, Thompson & Banke, 2021, Eneh, et. al., 2024, Oke, et. al., 2023). Financial institutions should prioritize the protection of user data and ensure that AI systems comply with relevant privacy laws and regulations. Financial institutions should establish mechanisms for accountability in AI systems, including clear lines of responsibility and mechanisms for redress if AI systems cause harm. By adhering to these ethical guidelines and frameworks, financial institutions can help ensure that AI is developed and used in a way that benefits society while minimizing harm.

In addition to the points mentioned, it's important to consider the following aspects of ethical guidelines and frameworks for AI in financial services: Ethical guidelines should promote inclusivity and diversity in AI development and use (Akpuokwe, Chikwe & Eneh, 2024, Igbinenikaro & Adewusi, 2024, Olawale, et. al., 2024). This includes ensuring that AI systems are designed to be accessible to all users, regardless of their background or characteristics, and that they do not discriminate against any group or individual. Ethical guidelines should prioritize human-centered design principles, ensuring that AI systems are designed to enhance human capabilities and decision-making, rather than replace or undermine them.

Ethical guidelines should recommend regular monitoring and evaluation of AI systems to ensure that they continue to meet ethical standards over time. This includes monitoring for bias, fairness, and other ethical considerations, as well as soliciting feedback from users and stakeholders (Aremon, et. al., 2024, Eneh, et. al., 2024, Okogwu, et. al., 2023). Ethical guidelines should promote collaboration and transparency among stakeholders, including financial institutions, regulators, and users. This can help build trust and ensure that AI systems are developed and used in a way that is accountable and transparent (Bakare, et. al., 2024, Esho, et. Al., 2024, Okatta, Ajayi & Olawale, 2024). Ethical guidelines should emphasize the importance of complying with relevant regulations and standards, including data protection laws, consumer protection regulations, and industry standards for AI ethics. By incorporating these considerations into ethical guidelines and frameworks for AI in financial services, stakeholders can help ensure that AI is developed and used in a way that benefits society while minimizing risks and harms.

6. Regulatory Oversight and Industry Standards

Regulatory oversight and industry standards play a crucial role in addressing the legal and ethical challenges associated with AI in financial services. Here are some key points to consider: Regulatory bodies, such as financial regulators and data protection authorities, play a key role in overseeing the use of AI in financial services (Banso, et. al., 2023, Esho, et. Al., 2024, Okatta, Ajayi & Olawale, 2024). They are responsible for enforcing relevant laws and regulations, ensuring that AI systems comply with ethical standards, and protecting consumer rights. Regulatory bodies can also provide guidance and set standards for the use of AI in financial services.

Industry standards for AI in financial services can help ensure that AI systems are developed and used in a way that is ethical and responsible. These standards can cover a range of issues, including data protection, algorithmic transparency, and consumer protection (Banso, et. al., 2024, Igbinenikaro & Adewusi, 2024, Odimarha, Ayodeji & Abaku, 2024a). By adhering to industry standards, financial institutions can demonstrate their commitment to ethical AI practices and build trust with consumers and regulators. Developing clear guidelines and standards for the use of AI in financial services, covering issues such as transparency, fairness, and accountability. Establishing mechanisms for auditing and monitoring AI systems to ensure compliance with ethical standards and regulatory requirements. Promoting collaboration and information sharing among stakeholders to address common challenges and share best practices. Providing resources and support for education and training on AI ethics and compliance for stakeholders in
the financial services industry (Chickwe, 2019, Igbinenikaro, Adekoya & Etukudoh, 2024, Kuteesa, Akpuokwe & Udeh, 2024). By taking these recommendations into account, regulatory bodies and industry stakeholders can help ensure that AI is developed and used in financial services in a way that is ethical, responsible, and aligned with societal values. Regulatory oversight and industry standards are critical components in the development and deployment of AI in financial services. They help to ensure that AI technologies are used responsibly, ethically, and in compliance with relevant laws and regulations. Here are some additional points to consider:

Regulatory bodies play a crucial role in monitoring the use of AI in financial services and enforcing compliance with regulations. This includes conducting audits, investigations, and inspections to ensure that AI systems are being used in a way that is consistent with legal and ethical standards (Daniyan, et. al., 2024, Igbinenikaro, Adekoya & Etukudoh, 2024, Isadare Dayo, et. al., 2021). Given the global nature of financial markets, international cooperation is essential for effective regulation of AI in financial services. Regulatory bodies and industry organizations should work together to harmonize regulations and standards across jurisdictions, ensuring a consistent approach to AI governance.

In addition to government regulation, industry self-regulation can also play a role in governing the use of AI in financial services. Industry organizations and associations can develop voluntary standards and best practices that go beyond regulatory requirements, helping to promote responsible AI use within the industry (Chickwe, 2019, Igbinenikaro, Adekoya & Etukudoh, 2024, Kuteesa, Akpuokwe & Udeh, 2024). Regulatory oversight and industry standards should emphasize the importance of accountability and transparency in AI systems. Financial institutions should be transparent about the use of AI, including how algorithms are developed and deployed, and should be accountable for the decisions made by AI systems.

Regulatory oversight and industry standards should be dynamic and evolve over time to keep pace with advancements in AI technology and changes in the regulatory landscape. This includes regularly reviewing and updating regulations and standards to ensure they remain effective and relevant (Coker, et. al., 2023, Igbinenikaro, Adekoya & Etukudoh, 2024, Izuka, et. al., 2023). By addressing these aspects of regulatory oversight and industry standards, stakeholders can help ensure that AI is used responsibly and ethically in financial services, ultimately benefiting consumers and the broader economy.

7. Case Studies and Examples

While not directly related to AI, this event highlighted the potential risks of algorithmic trading in financial markets. High-frequency trading algorithms were blamed for exacerbating market volatility and contributing to the crash (Chickwe, 2020, Igbinenikaro, Adekoya & Etukudoh, 2024, Kuteesa, Akpuokwe & Udeh, 2024). In 2016, Wells Fargo faced a scandal involving the creation of millions of unauthorized customer accounts. While not AI-specific, the incident raised questions about the ethical use of automated systems in banking and financial services. The need for robust oversight and monitoring of AI systems in financial services to prevent unauthorized or unethical behavior. The importance of transparency in AI algorithms and decision-making processes to ensure accountability and regulatory compliance. The necessity of clear guidelines and regulations governing the use of AI in financial services to protect consumers and maintain market integrity.

JP Morgan developed an AI-powered system to review legal documents, reducing the time taken to review loan agreements and other contracts from 360,000 hours to seconds. Eno uses AI to provide customers with real-time transaction alerts, balance inquiries, and other banking services, improving customer engagement and satisfaction (Chickwe, 2020, Igbinenikaro, Adekoya & Etukudoh, 2024, Kuteesa, Akpuokwe & Udeh, 2024). These case studies and examples illustrate the complexities and challenges of integrating AI into financial services. They highlight the importance of balancing innovation with regulatory compliance and ethical considerations to ensure the responsible use of AI in the industry.

The popular trading app faced scrutiny for its practice of selling customer orders to high-frequency trading firms (Chickwe, 2020, Igbinenikaro & Adewusi, 2024, Lottu, et. al., 2023, Odimarha, Ayodeji & Abaku, 2024b). While not directly related to AI, this case raised ethical concerns about the transparency and fairness of the trading process, highlighting the importance of ethical considerations in financial services. Several studies have shown that AI algorithms used for credit scoring can exhibit bias against certain demographic groups, such as minorities or low-income individuals. This raises legal and ethical questions about the use of AI in financial services and the potential for discrimination.

Financial institutions use AI algorithms to screen transactions and customers for potential money laundering activities (Chikwe, Eneh & Akpuokwe, 2024, Odimarha, Ayodeji & Abaku, 2024, Ojo, et. al., 2023). However, ensuring compliance
with AML and KYC regulations while maintaining customer privacy and avoiding false positives is a complex legal and ethical challenge. While not a traditional financial services company, Facebook's announcement of its Libra cryptocurrency project faced immediate regulatory scrutiny and backlash (Chikwe, Eneh & Akpuokwe, 2024, Ndiwe, et al., 2024, Odimarha, Ayodeji & Abaku, 2024c). Regulators raised concerns about the potential impact on monetary policy, financial stability, and consumer protection, highlighting the legal and ethical considerations of AI-driven financial innovations. These examples demonstrate the importance of legal accountability and ethical considerations in the use of AI in financial services. They underscore the need for regulatory oversight, transparency, and fairness to ensure that AI is used responsibly and ethically in the industry.

8. Conclusion

The discussion on legal accountability and ethical considerations of AI in financial services has highlighted the importance of transparency, fairness, and regulatory compliance. We have seen how AI applications in finance can pose challenges related to algorithmic bias, privacy concerns, and regulatory compliance, necessitating careful attention to ethical principles and legal frameworks. There is a clear need for collaborative action among policymakers, regulators, and industry stakeholders to address the legal and ethical challenges associated with AI in financial services. Policymakers and regulators must develop clear guidelines and regulations to govern the use of AI, while industry stakeholders must prioritize ethical considerations in the design, deployment, and use of AI systems.

Looking ahead, it is imperative that we continue to advance our understanding of the legal and ethical implications of AI in financial services. This includes ongoing research into algorithmic fairness, privacy-preserving AI techniques, and regulatory frameworks that promote innovation while safeguarding consumer rights. By working together, we can build a future where AI in financial services is characterized by transparency, accountability, and ethical responsibility. In conclusion, ensuring legal accountability and ethical considerations in the deployment of AI in financial services is essential for building trust, protecting consumers, and promoting the responsible use of technology in finance. By addressing these challenges proactively, we can harness the potential of AI to drive innovation and create positive outcomes for society as a whole.

Compliance with ethical standards

Disclosure of conflict of interest

No conflict of interest to be disclosed.

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