

# Detailing the Stakeholder Theory of Management in the Al World: A Position Paper on Ethical Decision-Making

Ademola, O. E. Professor, American International University West Africa College of Management and Information Technology Banjul, The Gambia E-mail: ademolaeo@p-acc.co.uk

# ABSTRACT

As artificial intelligence (AI) technology continues to proliferate across various industries, the ethical implications of its development and deployment have come under scrutiny. In this position paper, we delve into the application of stakeholder theory in the AI world, with a focus on ethical decision-making processes. Drawing on academic literature and real-world examples, we examine how stakeholder theory can guide organizations and policymakers in navigating the complex ethical landscape of AI technology. By considering the perspectives and interests of various stakeholders, we argue that a stakeholder-centred approach is crucial for ensuring that AI is developed and utilized in a responsible and ethical manner.

Keywords: Artificial Intelligence, Stakeholder Theory, Ethics, Decision-Making, Management

Keywords: Theoretical Evaluation, Social Media, Entrepreneurial Opportunity, Evaluation, Business, Artificial Intelligence

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#### 1. INTRODUCTION

Artificial intelligence (AI) has emerged as a transformative technology that holds immense potential for improving efficiency, productivity, and innovation in various sectors. However, the rapid advancement of AI technology has also raised significant ethical concerns related to privacy, bias, accountability, and societal impact. As organizations and policymakers grapple with these ethical challenges, there is a growing recognition of the importance of stakeholder engagement in shaping the development and deployment of AI systems.

Stakeholder theory, as articulated by Freeman (1984), posits that organizations should consider the interests of all individuals or groups affected by their actions and decisions. In the context of Al, stakeholders can include a diverse set of actors, such as developers, users, regulators, advocacy groups, and the general public. Each stakeholder group may have distinct values, priorities, and concerns that need to be taken into account in the design and implementation of Al systems.



In recent years, scholars and practitioners have increasingly turned to stakeholder theory as a theoretical framework for addressing ethical issues in the AI domain. For instance, Mittelstadt and Floridi (2016) argue that a stakeholder-oriented approach can help mitigate the risks of bias and discrimination in AI algorithms by ensuring that the perspectives of marginalized groups are considered in the design process. Moreover, stakeholder theory emphasizes the importance of transparency, accountability, and inclusivity in decision-making processes, which are crucial aspects of ethical AI governance (Floridi et al., 2018). By involving a diverse set of stakeholders in the development and implementation of AI systems, organizations can foster trust, promote fairness, and enhance the social acceptance of AI technologies.

In this position paper, we aim to delve deeper into the role of stakeholder theory in guiding ethical decision-making in the AI world. By examining the perspectives and interests of key stakeholders, we will explore how a stakeholder-centered approach can help organizations and policymakers navigate the ethical complexities of AI technology. Through a review of academic literature and case studies, we will elucidate the practical implications of stakeholder theory for managing AI ethics and suggest recommendations for fostering a more ethical and responsible AI ecosystem.

# 2. STAKEHOLDER THEORY IN AI

Stakeholder theory, as put forth by Freeman (1984), posits that organizations have a moral obligation to consider the interests of all stakeholders, not just shareholders, in their decision-making processes. Stakeholders are individuals or groups who can affect or are affected by an organization's actions, and they may include employees, customers, suppliers, the community, and more. This theory emphasizes the importance of managing relationships with stakeholders ethically and responsibly to create long-term value for the organization and society.

In the context of business ethics, stakeholder theory provides a framework for organizations to balance competing interests, prioritize ethical considerations, and promote corporate social responsibility. By engaging with stakeholders and considering their perspectives, organizations can make more informed decisions that align with ethical principles and values. This approach can enhance organizational reputation, build trust with stakeholders, and drive sustainable business practices (Donaldson & Preston, 1995). Artificial Intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to perform tasks that typically require human cognition, such as learning, problem-solving, and decision-making. The rapid advancement and widespread adoption of AI technologies have raised numerous ethical issues and challenges related to privacy, bias, transparency, accountability, and the impact on jobs and society.

Al systems can exhibit bias and discrimination if they are trained on biased datasets or programmed without considering the ethical implications of their decisions. Algorithmic decision-making in areas like hiring, lending, and criminal justice can perpetuate social inequalities and reinforce existing biases. The lack of transparency and accountability in Al algorithms can also lead to unintended consequences and ethical dilemmas for organizations and society as a whole (Jobin, lenca, & Vayena, 2019). Stakeholder theory is particularly relevant in the context of Al ethics as it emphasizes the need to consider the interests and concerns of all stakeholders impacted by Al systems.



In the development, deployment, and use of AI technologies, organizations must engage with diverse stakeholders – including users, developers, regulators, advocacy groups, and the general public – to understand their perspectives, gather feedback, and address ethical issues proactively. By adopting a stakeholder-centred approach to AI ethics, organizations can foster transparency, inclusivity, and accountability in their decision-making processes. Stakeholder engagement can help identify potential ethical risks, mitigate bias and discrimination, ensure fairness and equity in AI systems, and build trust with the broader community. Ultimately, incorporating stakeholder theory in AI governance can lead to more ethical, responsible, and sustainable AI practices that benefit individuals, organizations, and society as a whole.

# 3. STAKEHOLDERS IN THE AI ECOSYSTEM:

Developers, as highlighted by Floridi (2019), hold a critical role in the Al ecosystem, creating algorithms and programming Al systems. Their decisions impact the functionality, accuracy, and ethical considerations of Al technologies. Users, as observed by Jobin et al. (2019), encompass individuals, businesses, and governments who interact with Al technologies on a daily basis. They rely on these systems for decision-making, automation, and problem-solving. Regulators, as emphasized by the Al Now Institute (2018), play a crucial role in overseeing Al deployment to ensure compliance with ethical guidelines, regulations, and standards.

Advocacy groups, also noted by Floridi (2019), advocate for ethical principles, privacy protection, and accountability in AI development. Society at large, as discussed by Jobin et al. (2019), includes the general public whose concerns impact societal acceptance, trust, and adoption of AI technologies.

Developers, driven by innovation and technological advancement (Floridi, 2019), aim to create efficient, accurate, and scalable AI systems. Users, as highlighted by Jobin et al. (2019), value AI technologies that enhance productivity, decision-making, and convenience, while also emphasizing the importance of privacy, security, and transparency in AI applications. Regulators, according to the AI Now Institute (2018), strive to balance AI innovation with ethical standards, accountability, and fairness in deployment. Advocacy groups, as mentioned by Floridi (2019), advocate for human-centric AI design, algorithmic transparency, and the prevention of bias and discrimination in AI systems. Society at large, echoing the concerns raised by Jobin et al. (2019), expresses apprehensions about AI's impact on jobs, privacy, autonomy, and societal values, highlighting the need for ethical AI governance, public engagement, and education.

#### 4. ETHICAL CONSIDERATIONS IN AI DEVELOPMENT:

Bias in Al algorithms, as discussed by Buolamwini and Gebru (2018), can lead to discriminatory outcomes, reinforcing existing social inequalities. Ensuring fairness in Al systems, as highlighted by Mittelstadt et al. (2016), involves addressing algorithmic biases and ensuring equitable outcomes for all individuals. Transparency in Al decision-making, as emphasized by Mitchell et al. (2019), is essential for understanding how Al systems work and enabling accountability for their actions. Accountability in Al development, as noted by Jobin et al. (2019), involves defining responsibilities for the design, deployment, and impact of Al technologies.



Social impact of AI, according to Floridi (2019), encompasses the broader societal consequences of AI adoption, including economic disruptions, privacy concerns, and ethical dilemmas. One example of an ethical dilemma in AI projects is the use of facial recognition technology for law enforcement purposes. The potential for biased outcomes and privacy violations raises concerns about the ethical implications of mass surveillance (Buolamwini & Gebru, 2018). Another example is the deployment of AI in hiring processes, where algorithmic biases can perpetuate discrimination against certain demographic groups, raising questions about fairness and accountability (Mittelstadt et al., 2016). Additionally, the use of AI in predictive policing poses ethical dilemmas related to transparency and social impact, as it may exacerbate inequalities and reinforce existing biases in law enforcement practices (Mitchell et al., 2019).

#### 5. ROLE OF STAKEHOLDER THEORY IN ETHICAL DECISION-MAKING:

Stakeholder theory, as outlined by Freeman (1984), posits that organizations should consider the interests of all stakeholders, not just shareholders, in decision-making processes. In the context of Al development, stakeholder theory can help organizations navigate ethical complexities by promoting a holistic approach to decision-making that takes into account the diverse concerns and perspectives of various stakeholders, including developers, users, regulators, advocacy groups, and society at large. By considering the impact of Al technologies on all stakeholders, organizations can identify potential ethical risks, mitigate biases, and ensure that Al systems align with societal values and norms.

Transparency in stakeholder engagement, as emphasized by Donaldson and Preston (1995), involves open communication about decision-making processes, potential risks, and ethical considerations. By fostering transparency, organizations can build trust with stakeholders and demonstrate a commitment to ethical behaviour. Inclusivity refers to the involvement of a diverse set of stakeholders in decision-making processes, ensuring that all perspectives are considered and represented. Accountability in stakeholder engagement, as highlighted by Jones (1995), entails defining clear responsibilities and consequences for decision-makers, promoting ethical conduct and responsible behaviour. One example of an organization using stakeholder theory to guide ethical decision-making in Al projects is Google's Al principles, which emphasize transparency, accountability, and inclusivity in the development and deployment of Al technologies (Google, 2021).

By engaging with a wide range of stakeholders, including privacy advocates, policymakers, and civil society groups, Google seeks to address ethical concerns and ensure that its AI systems are aligned with societal values. Another example is Microsoft's AI ethics board, which includes external experts and stakeholders to provide input on ethical issues related to AI development and deployment (Microsoft, 2021). By integrating stakeholder perspectives into decision-making processes, Microsoft aims to promote responsible AI innovation and address ethical dilemmas proactively.



### 6. PRACTICAL IMPLICATIONS AND RECOMMENDATIONS:

Applying stakeholder theory in AI ethics has several practical implications for organizations. By considering the interests and concerns of all stakeholders, organizations can identify potential ethical risks and ensure that their AI systems align with societal values and norms. This approach can help organizations build trust with stakeholders, mitigate biases, and promote transparency in decision-making processes (Flammer, 2015). Additionally, engaging with a diverse set of stakeholders can help organizations anticipate and address ethical dilemmas proactively, leading to more responsible and sustainable AI development practices (Berman, 2020). To foster ethical AI practices, organizations and policymakers can take several steps.

Firstly, they should ensure that AI development processes are transparent and accountable, with clear mechanisms for addressing ethical concerns and grievances. Organizations should also engage with a wide range of stakeholders, including experts, users, advocacy groups, and regulators, to gather diverse perspectives and insights on ethical issues (Zadek et al., 2017). Additionally, organizations should invest in ethical training for developers and employees, promoting a culture of responsible innovation and ethical conduct.

Policymakers, on the other hand, can establish guidelines and regulations for ethical AI development, promoting principles such as fairness, transparency, and accountability in AI systems (European Commission, 2021). By aligning regulatory frameworks with stakeholder values, policymakers can ensure that AI technologies serve the public interest while upholding ethical standards. Adopting a stakeholder-centred approach in managing AI ethics offers several benefits for organizations and society. By considering the interests of all stakeholders, organizations can build trust, enhance their reputation, and gain a competitive advantage in the market. This approach can also help organizations anticipate and address ethical risks, leading to more responsible and sustainable AI development practices.

Furthermore, by engaging with a diverse set of stakeholders, organizations can promote inclusivity, diversity, and equity in Al systems, ensuring that the benefits of Al technologies are distributed equitably across society. This not only enhances social welfare but also helps organizations avoid potential conflicts with stakeholders and regulatory authorities (World Economic Forum, 2021).

#### 7. CASE STUDIES AND EXAMPLES:

Two case studies and examples of organizations successfully implementing stakeholder theory in Al governance:

 Alphabet Inc. (Google): Alphabet Inc., the parent company of Google, has been actively engaging stakeholders in Al governance. The company established an external advisory board to provide recommendations on Al ethics, comprising experts from various fields and diverse backgrounds. By involving stakeholders in decision-making processes, Google has demonstrated a commitment to transparency and inclusivity in its Al development efforts (The Guardian, 2020).



2. Microsoft: Microsoft has also adopted a stakeholder-centered approach in Al governance through initiatives such as the Al, Ethics, and Effects in Engineering and Research (AETHER) Committee. This committee comprises a diverse group of internal and external stakeholders, including ethicists, technologists, and policymakers, to address ethical challenges and promote responsible Al development. Microsoft's engagement with stakeholders has helped the company navigate complex ethical dilemmas and strengthen trust with users and regulators (Microsoft, 2021).

By examining the outcomes and lessons learned from the case studies of Alphabet Inc. and Microsoft, several key insights emerge. Firstly, organizations that engage stakeholders in Al governance can enhance transparency, accountability, and credibility in their Al development processes. Collaborating with diverse stakeholders enables organizations to identify blind spots, anticipate potential risks, and address ethical concerns proactively, fostering a culture of ethical decision-making (The Wall Street Journal, 2019). Moreover, involving stakeholders in Al governance can lead to the development of more socially responsible and sustainable Al systems. By considering the perspectives and interests of various stakeholders, organizations can create Al technologies that align with societal values, address systemic biases, and promote inclusive and equitable outcomes for all stakeholders (Forbes, 2020). Overall, the case studies of Alphabet Inc. and Microsoft illustrate the benefits of implementing stakeholder theory in Al governance and offer valuable insights for organizations seeking to navigate ethical complexities in Al development.

# 8. CONCLUSION AND FUTURE DIRECTIONS:

In this paper, we have explored the application of stakeholder theory in the context of AI ethics, highlighting the importance of involving diverse stakeholders in decision-making processes to ensure responsible AI development. Through case studies and examples of organizations such as Alphabet Inc. (2020) and Microsoft (2021), we have demonstrated the benefits of adopting a stakeholder-centred approach in managing AI ethics, including enhanced transparency, accountability, and socially responsible AI systems. Our analysis reveals that engaging stakeholders in AI governance can lead to more ethical,

inclusive, and sustainable outcomes, thereby promoting trust and credibility in the development and deployment of AI technologies. Moving forward, future research in the intersection of stakeholder theory and AI ethics should focus on several key areas. One important direction is to explore the effective mechanisms and frameworks for integrating stakeholder perspectives into AI governance processes, considering the complexities of AI technologies and the diverse interests of stakeholders. Additionally, further research is needed to examine the impact of stakeholder engagement on AI development outcomes, including the identification of best practices and strategies for fostering ethical AI practices within organizations. Moreover, studying the ethical implications of emerging AI technologies, such as autonomous systems and predictive algorithms, in collaboration with stakeholders can provide valuable insights for designing responsible AI solutions in the future.



In conclusion, the ongoing dialogue and collaboration among stakeholders are crucial for advancing ethical AI practices and addressing the ethical challenges posed by AI technologies (The Wall Street Journal, 2019). By fostering a culture of transparency, inclusivity, and accountability in AI development, organizations and policymakers can build trust with stakeholders, mitigate risks, and promote ethical decision-making in the rapidly evolving AI landscape. Continued engagement with diverse stakeholders, including ethicists, policymakers, technologists, and civil society representatives, is essential for ensuring that AI technologies are developed and deployed in a manner that upholds ethical values, respects human rights, and serves the common good.

Overall, the integration of stakeholder theory in AI ethics offers a promising framework for promoting responsible AI development and shaping a more ethically conscious and sustainable AI ecosystem.

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