



Analyzing the Ethical Implications of Artificial Intelligence in Automated Decision-Making

RESEARCH PROPOSAL TITLE

Rationale/ Introduction

Artificial Intelligence (AI) has become a fundamental component of decision-making systems in various sectors, including healthcare, finance, law enforcement, and recruitment. While AI can enhance efficiency and reduce human bias, concerns have been raised about its ethical implications, including algorithmic discrimination, privacy violations, and lack of transparency. AI-driven decisions, often based on complex machine learning models, may result in unintended biases or reinforce existing societal inequalities. This research aims to analyze the ethical challenges associated with AI in automated decision-making, exploring issues such as fairness, accountability, and the potential risks of unchecked AI deployment.

<Insert content; In-text citations are needed>

Significance of the Study

This study is significant as it contributes to the growing discourse on responsible AI development and deployment. By analyzing the ethical concerns surrounding AI-driven decisions, the research will provide insights for policymakers, AI developers, and organizations seeking to implement ethical AI frameworks. The findings will help identify areas where regulations and best practices can ensure AI systems are transparent, fair, and accountable. Additionally, the study will explore the balance between innovation and ethical responsibility, particularly in high-stakes applications such as criminal justice, hiring processes, and financial assessments.

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Scope and Limitations of the Study

This study will focus on analyzing the ethical implications of AI in automated decision-making across various industries. It will examine real-world case studies, regulatory challenges, and proposed ethical frameworks. However, the study will not involve the technical development of AI models or conduct experimental testing of AI decision-making algorithms.

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A4 size, Arial 11
Academic Writing Style (good writing style should be considered)
APA formatting (referencing and in-text citation)
Always make sure that your proposal falls under any 3 prioritized CS research tracks
Avoid plagiarism
Always make sure that your proposed study is specific and attainable.

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Commented [2]: Yung Rationale po ay nageexplain the reason behind your proposal - why do you propose that research idea.
First paragraph: Introduce ang yung problem or yung research gap. It is something that you want to address. Not because it is called problem ay direct problem na ito. It can be the gap, weaknesses, issues, or based on recommendations from existing literature.

Second paragraph: In few sentences, describe how you'll be able to solve the research gap or solve ang weaknesses nito.

Third paragraph: Potential impact. Dito nyo na ihighlight yung expected outcomes or benefits nito.

Fourth paragraph: Conclusion. Just a summary of this rationale and conviction na maipush ang proposal nyo. This highlights yung value ng proposal nyo to contribute sa field ng CS.

NOTE: ACADEMIC WRITING STYLE should be followed. No to ChatGPT :)

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Dito rin dapat ilagay yung "possible" contribution nito sa U.N. SDG. Basahin po muna ang <https://www.un.org/sustainabledevelopment/sustainable-development-goals/> bago maglagay ng content. Wag magassume dahil may focus ang bawat goal.

Dito rin ilagay po ang involvement ng proposal nyo sa CvSU Thematic Area. If one or more involved areas, okay lang po basta maijustify nyo po sa section na ito.

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Objectives of the Study

This research aims to evaluate the ethical challenges associated with AI-driven decision-making and propose solutions for responsible AI use.

Specifically, it will:

1. Examine the ethical concerns related to bias, transparency, and accountability in AI-driven decisions.
2. Analyze real-world case studies where AI has led to ethical dilemmas or controversies.
3. Explore existing regulations and ethical frameworks to identify potential improvements in AI governance.

Expected Outputs

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The research is expected to provide an in-depth analysis of the ethical challenges posed by AI in decision-making processes. Findings will include case studies of AI-related ethical concerns, an evaluation of existing ethical guidelines, and recommendations for improving AI governance. Additionally, the study will contribute to the ongoing discussion on AI fairness, accountability, and responsible development.

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References

- Binns, R. (2018). *Fairness in machine learning: Lessons from political philosophy*. *Proceedings of the Conference on Fairness, Accountability, and Transparency*, 149-159.
- Mittelstadt, B. D., Allo, P., Taddeo, M., Wachter, S., & Floridi, L. (2016). *The ethics of algorithms: Mapping the debate*. *Big Data & Society*, 3(2), 1-21.
- Wachter, S., Mittelstadt, B., & Floridi, L. (2017). *Why a right to explanation of automated decision-making does not exist in the General Data Protection Regulation*. *International Data Privacy Law*, 7(2), 76-99.



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