PAPER NAME

2407970_Sukriya_Shrestha.pdf

AUTHOR

-

WORD COUNT

1512 Words

CHARACTER COUNT

9667 Characters

PAGE COUNT

6 Pages

FILE SIZE

207.4KB

SUBMISSION DATE

Jan 3, 2025 11:02 PM GMT+5:45

REPORT DATE

Jan 3, 2025 11:02 PM GMT+5:45

9% Overall Similarity

The combined total of all matches, including overlapping sources, for each database.

- 2% Internet database
- 3% Publications database
- Crossref database
- Crossref Posted Content database
- 7% Submitted Works database

Excluded from Similarity Report

- Bibliographic material
- Quoted material

Academic Year	Module	Assignment Number	Assessment Type
2025	**Concepts of Technologies and AI-5CS037**	2	Report

AI: BALANCING INNOVATION WITH ETHICAL INTEGRITY: OPPORTUNITIES AND CHALLENGES ACROSS VARIOUS FIELDS

Student Id : 2407970

Student Name : Sukriya Shrestha

Section : L5CG5

Module Leader : Mr. Siman Giri

Tutor : Mr. Ronit Shrestha

Submitted on : 3rd Jan, 2025

Table of Contents

1. Abstract

AI, or Artificial Intelligence and machine learning, has achieved widespread adaptation and recognition worldwide due to its significantly varying impacts on every scope. AI has promoted vast opportunities in all forms of outreach ever recognized through its unmatched efficiency, easy-to-access data, and sources for retrieving information. This report discusses how AI has transformed different sectors with its dual nature emphasizing the importance of balancing innovation with ethical integrity. Furthermore, the study talks about the challenges and solutions to the existing problems regarding ethical and moral values. The ethical implications of AI critically focus on fairness, transparency, and accountability and work on necessary frameworks and moral guidelines to ensure the full potential alignment with human rights.

2. Introduction to AI and Machine Learning

Even though generative AI contributes to the potential benefits of revolutionizing fields and sectors like Education, Healthcare, Information Technology, Marketing, Banking Services, and many more. There needs to be significant consideration and addressing of ethical and moral challenges to minimize the negative impact for truly the benefit of society as a whole. Moreover, ethical and moral issues have caused biases, discrimination, and privacy concerns that need to be eliminated. For instance, a study made by (Team, 2018) shows discrimination based on specific characteristics, often considered protected, is not only concerned with ethical issues but also human rights violations. These discriminations are lawfully neglected in numerous legal systems. Given that AI has the potential to threaten fundamental human rights and highlights that machine learning could destabilize rights, equality, and non-discrimination.

To reduce these negative ethical and moral subjects' certain regulations and guidelines need to be fed to AI algorithms that support the basic principles of universal human rights. Similarly, AI should be developed comprehensively and transparently without feeding any biases. It should also support sustainability, fairness, and accountability. In addition, creating a trustworthy Artificial Intelligence should follow three main props throughout its entire system cycle: it should be 1) lawful, 2) ethical, and 3) robust, both from technological and societal viewpoints. (Díaz-Rodríguez, 2023)

Transparency must be a top priority for developing an ethical AI model, guaranteeing that users can easily comprehend and access the decision-making processes. To ensure fairness, AI systems must reduce bias and encourage diversity as well as accountably handle fair system errors. Additionally, safeguarding privacy by adhering to data protection regulations is very crucial. The report (Miller, 2022) also signifies that to ensure that AI systems are designed and deployed ethically, avoiding harm and maximizing benefits for society, it is important to follow the principles of AI, while also emphasizing human anatomy and control.

3. Ethical Implications of AI in Creativity and Employment

1.1 Ethical Issues in AI-generated content in fields like Art, Music, and Literature: Copyright, Attribution, and Ownership

Generative AI due to its efficient algorithms has advanced in data manipulation and is very qualified to produce content that mimics human creativity including art, music, and literature. In every sector copyright law and ownership plays a significant role in protecting the original works and fostering innovations. It provides exclusiveness and helps in economic gain and also prevents the misuse of those works. Even though we can use AI to produce anything we desire, that does not grant us the rights of ownership. It is regarded as ours and not ours at the same time. Therefore, determining the true attributor for the contents is the main problem with AI-integrated work. A case study displayed that Stability AI allegedly used Getty's copyrighted images, along with their corresponding metadata, to develop its generative AI model without securing the necessary licenses or permissions. As a result, Getty claims that this practice creates copyright infringement, unfair competition, and embezzlement of intellectual property. This case highlights the issues surrounding training datasets and their implications for copyright violation. (Anshul Kumaria, 2025)

1.2 Impact of AI on Employment: Job Rearrangement and Workforce Adaptation and Its Solution

AI is incorporated rapidly in numerous sectors of the global workforce. One of the most pressing concerns regarding AI is the potential impact on employment. While AI is opening up new chances for job prospects, robotic automation AI is also resulting in the displacement of workers, particularly in traditional industries that suggestively rely on routines and repetitive tasks like welding, and packaging with precision and efficiency. Similarly, self-driving vehicles and delivery drones are using AI to navigate roads to transport and supply goods without the intervention of humans, due to which truck and delivery drivers are facing the risk of job displacement in the transportation industry. Call center agents and customer support representatives are also being replaced by highly driven AI systems like Chatbots and automated call centers. (Tripathi, 2024)

To alleviate these problems, it is vital to focus on labor adjustment. One of the important tasks is to ensure that workers are not left behind by providing them with different skill development programs and pathways to new job opportunities. Government and Institutions should be involved in providing work adjustments for the people to work alongside AI tools, by inclining their creative prospects rather than replacing them.

1.3 Impact of AI on Employment: Balancing Job Displacement with Enhanced Creativity and Human-AI Collaboration

The impact of AI on employment is closely connected with creativity as it automates repetitive tasks and liberates human talent for more inventive pursuits. Even though job displacement raises a valid concern, implementing strategies like rebuilding skills and fostering collaboration between humans and AI can alleviate its impact. These methods

not only encourage creativity but also enable individuals to utilize AI as an instrument for innovation instead of viewing it as a replacement.

1.4 AI and Workforce Adaptation: Ethical Implications and Skill Development

With AI partaking in the workforce, different adaptations need to be ensured ethically and morally for suitable unbiased outcomes. A major concern is the possibility that AI may arise disproportionately impacting certain job sectors potentially improving fairness and access to new opportunities. Building ethical implications ensures that the workforce is provided with the support system to adapt to AI and its impacts on job markets.

Skill Development is a must in this AI-driven world and people need to participate in the reskilling and upskilling programs to acquire technical skills to effectively handle the rigorous AI system and focus on human emotional intelligence and creativity without the dilemma to challenge ourselves. Every sector and corporation should work cooperatively to access a continuous learning environment with materials so that the workforce remains adaptable and robust.

Furthermore, there should be transparency among employees for proper decision-making to access resources regarding product management of AI that enhances creativity and mitigates the challenges ever known.

4. Conclusion

AI has revolutionized throughout the years and continues to transform the history of industries through enhanced efficiency, high innovation, and improved decision-making processes. Undeniably, AI has transformed various industries by driving innovation and creative efficiency. However, this progress comes with drawbacks, such as ethical and moral concerns of job migration. To address these issues, it’s crucial to establish ethical guidelines and foster human-AI cooperation to create a balanced workforce.

To sum up, focusing on accountability, privacy, and fairness ensures AI approaches a different scenario where all basic human potential has been unlocked and a roadmap to a future can be created with human creativity and AI innovation working harmoniously together.

References

Anshul Kumaria, M. W. P. U., 2025. *THE COPYRIGHT ISSUE IN AI-GENERATED CONTENT: LEGAL CHALLENGES AND FUTURE DIRECTIONS.* [Online]
Available at: https://www.ijllr.com/post/the-copyright-issue-in-ai-generated-content-legal-challenges-and-future-directions

Díaz-Rodríguez, N., 2023. *Connecting the dots in trustworthy Artificial Intelligence: From AI principles, ethics, and key requirements to responsible AI systems and regulation.* [Online]
Available at: https://doi.org/10.1016/j.inffus.2023.101896

Miller, K., 2022. *The 2022 AI Index: AI's Ethical Growing Pains.* [Online]
Available at: https://hai.stanford.edu/news/2022-ai-index-ais-ethical-growing-pains?form=MG0AV3

Team, A. N. P., 2018. *The Toronto Declaration: Protecting the right.* [Online]
Available at: https://www.accessnow.org/wp-content/uploads/2018/08/The-Toronto-Declaration_ENG_08-2018.pdf

Tripathi, D. P., 2024. The Impact of Artificial Intelligence on Employment and Workforce. Volume 2.

9% Overall Similarity

Top sources found in the following databases:

- 2% Internet database
- Crossref database
- 7% Submitted Works database
- 3% Publications database
- Crossref Posted Content database

TOP SOURCES

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

1	**University of Wolverhampton on 2025-01-01** Submitted works	3%
2	**Tarnveer Singh. "Artificial Intelligence and Ethics - A Field Guide for St...** Publication	2%
3	**University of Sheffield on 2024-04-30** Submitted works	2%
4	**arxiv.org** Internet	1%
5	**University of the Pacific on 2021-04-15** Submitted works	<1%