



Artificial Intelligence (AI) and the Preservation of Culture

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Abstract:

Artificial intelligence (AI) is one of the most advanced forms of technology and it has come to play recently in the 21st century. Undoubtedly AI has gone a long way to communicate the modern and advance human capabilities and its utilization through various means and it has provided convenience to the society. AI as the face of advanced form of technology has influenced across various spheres and it could be perceived in the light of progress of the human kind and one cannot ignore its influence in every walk of human life.

This research paper, with the help of evaluation method probes the contribution of AI to cultural preservation and how it sustains the culture of the people; and the use of AI largely encouraged across the culture of the people in preserving their cultural heritage.

Keywords: *artificial intelligence, cultural heritage, digitization, restoration, and community engagement*

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Introduction

With the emergence of Artificial Intelligence various sectors of society like healthcare, entertainment and education has been transformed numerously. We could study and see the technology through the lens of AI tools. AI's applications in the areas like art, music, literature and historical preservation could help to bridge the generational gaps, provide the cultural knowledge and ensure the way of transmitting the cultural heritage to the future generations. Despite AI's numerous use it has several limitations, challenges and ethical bindings in cultural preservation.

Every society has compiled with diverse culture, languages, traditions, histories and customs. The AI technology carries the natural

learning process to the machine learning with the innovative methods to generate cultural knowledge. It has become easy with the help of AI to curate, digitize and disseminate the cultural artifacts.

The preservation of cultural heritage and oral traditions is crucial for maintaining the diversity and richness of human culture. AI has emerged as a powerful tool in the preservation of cultural heritage and oral traditions. Many languages of the world are at the risk of disappearing, and hence, the oral traditions which are passed down through generations, and the cultural knowledge of such societies are at risk of being lost due to the lack of documentation. Many communities lack the resources and infrastructure to

preserve their cultural heritage and oral traditions. In such condition and situation, the AI powered language documentation tools can help to record, transcribe and translate the endangered languages. It also helps to make it accessible to a wider audience with the help of speech recognition AI mechanism.

AI's digital archives can help to store and manage large collections of cultural heritage materials like, audio recordings, videos and texts; which will be helpful to disseminate cultural heritage and oral traditions to a wider audience. With the help of AI based initiatives the documentation and promotion of endangered languages and the preservation of linguistic diversity, revitalizing the languages by creating different educational tools and resources for new generations has made very easy and effective in the cultural promotions. AI has the potentiality to create more effective and efficient methods of document preservation and restoration.

With the help of AI tools, the preservation and transmission of folklore, a significant aspect of cultural heritage; analysis of oral traditions and storytelling techniques, and the oral histories are shared with younger generations, bridging the gap between traditional practices and modern technological advancements. AI presents powerful tools for enhancing cultural heritage preservation, however, the integration of AI in cultural heritage also raises significant ethical concerns, including issues of data privacy, cultural appropriation, and the need for community involvement in utilization of technology. UNESCO defines cultural heritage as the legacy of physical artifacts and intangible attributes of a group of society, which includes traditions, language, and performing arts. (UNESCO, 2019).

Role of AI in preservation of culture

As AI has emerged a transformative force in various domains, including preservation of culture, its technologies facilitate the documentation, analysis, and dissemination of cultural artifacts and practices and enabling to manage data effectively. The technological advancements paves way to effective preservation and also creates new opportunities for people's education, allows worldwide audiences to connect with their cultural heritage.

Another side of the AI's application in culture and other fields; it raises critical ethical considerations, issues regarding data privacy. The involvement of local communities will be helpful for successful implementation of AI. Issues related to data privacy of the cultural heritage often involves sensitive community information. There should be an interdisciplinary collaboration between technologist, cultural experts and community members in order to apply AI in preservation of cultural heritage.

There are so many challenges in the implementation of AI, but we could find out solutions by enhancing cultural sensitivity engaging the communities to take an active part in preserving their cultural heritage.

There are so many challenges in the implementation of AI, but we could find out solutions by enhancing cultural sensitivity engaging the communities to take an active part in preserving their culture. Collaborative projects must be introduced to the artists, cultural practitioners and technologists to lead the innovative outcomes that reflect the richness of cultural diversity and foster sustainable preservation practices.

The one prominent theme is the effective use of AI technologies in the digitalization of

cultural artifacts. Previously it was not possible to preserve the traditions, and traditional arts like Indian folk music, classical dances, various regional art forms. The geographical and temporal limitations have been vanished due to the use of A I. A I has led to the creation of innovative forms of artistic expression while still retaining the cultural essence of the originals. The inclusivity of A I technology expands the reach of cultural content, makes it widely available to the global audiences. A I has different platforms for the different age groups, different kinds of interests and learnings and knowledge of culture and its heritage.

Conclusion

A I has the ability to significantly enhance access to the engagement of different cultures across various dimensions, like art, tradition and languages. A I plays a pivotal role in preserving languages, creating innovative educational resources, communication in various languages of the globe, maintaining linguistic diversity. It also digitalizes the ancient texts, artworks, monuments for the audiences around the world. People get engaged with the histories, traditions and art forms of the globe with A I based models. A I ensures to serve as a bridge to connect the past with the future. A I has the potential to be a powerful tool in both the preservation and transmission of the culture, increasing accessibility for new audiences, allowing deeper engagement and inclusivity and relevance for future generations.

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