



Original Article

Reimagining the Humanities: Integrating Artificial Intelligence with Traditional Knowledge

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Manuscript ID:
RIGJAAR-2025-020911

ISSN: 2998-4459
Volume 2
Issue 9
Pp. 46-48
September 2025

Submitted: 05 Aug. 2025
Revised: 10 Aug. 2025
Accepted: 06 Sept. 2025
Published: 30 Sept. 2025

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Quick Response Code:



Web: <https://rlgjaar.com>



DOI:
10.5281/zenodo.17471937

DOI Link:
<https://doi.org/10.5281/zenodo.17471937>



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Abstract

The association between AI and the humans has reached a new era. It is now becoming the centre of conservation, interpretation and spread of traditional knowledge. With the speed growth of AI, Culture and humanistic inquiry get its power and scalability. This new partnership, rather complements human knowledge. It offers new ways of aiding access to History texts, oral histories and cultural objects. The tools such as advanced dissertation analysis, AI technologies help fills gaps in analyses by uncovering hidden relationships and latent meanings. The new age of AI and its association with humankind have just begun. It is now a significant centre in the gathering, interpreting and sharing of indigenous knowledge. The humanities traditionally have integrated culture and human inquiry in a fashion that is changing because of the velocity, strength, and capability of AI. It focusses on human knowledge that has had the effect of the human being able to discover new paths to explore Historical documents and oral memories or cultural objects. Machine learning and automated discourse analysis, among other AI tools as pattern recognition and visualization, help to mitigate the lack of analytic power of an analysis, exposing hidden relationships and latent meanings. AI offers opportunity to the humanities a chance to restore the data through multiple technologies that preserve dying languages, re-write lost histories and share knowledge on a bigger scale.

Keywords: Artificial Intelligence (AI), Ethical AI, Digital Humanities, Cultural Heritage Preservation, Traditional Knowledge, Natural Language Processing (NLP)

Introduction

Humanities encompass a wide range of disciplines such as culture, language, history, philosophy, literature, and the arts. AI provides a means of revitalizing the old data of all the fields with its robust technologies. With the arrival of AI, humanities are acquiring new improvements. Through AI programmers can analyse historical records, digitize ancient texts and preserve and revitalize endangered languages. Not only this, but also AI technologies open the doors to further discoveries and advancements in all fields. The old records get a new shape is like a paradigm shift. AI Technologies dramatically increases accessibility of the past from the present. The integration of AI in linguistic preservation helps taking alive the dying languages. Digitizing the oral content on humanities which means interactive learning tools on dying languages helps reintroduce them into educational and cultural context.

Language Preservation and Revitalization

There are nearly 7000 languages in the world. Among them around 2500 are endangered languages. Many endangered languages are spoken in a small ethnic group. Languages are the real identity of a culture. So as to preserve a culture we have to popularize the languages. Across the globe loss of communication forms with the languages will lead to losing valuable cultural and timeless knowledge systems. If it goes the same way thousands of languages go extinct. Artificial intelligence, particularly natural language processing, helps record and transform the program of saving endangered languages.

Through Natural Language Processing (NLP) methods, programmes are able to read, get the meaning of and re-write the same in proper digital format. This process repeated for huge volumes of textual media such as historical documents and oral data, including speech. Advancements in AI technology also help develop concern programmes for the preserving languages.

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How to cite this article:

S Arul Vallarasi. (2025). Reimagining the Humanities: Integrating Artificial Intelligence with Traditional Knowledge. Royal International Global Journal of Advance and Applied Research, 2(9), 46–48.
<https://doi.org/10.5281/zenodo.17471937>



The technologies include interactive dictionaries, speech recognition technology and oral language teaching tools, as well as searchable text. It is good to take the local and the native people in the project to ensure the digital data more reliable and cultural appropriate. The collaborations with the native people give cultural significance for the end result.

Digitization of Historical Manuscripts and Archives

Manuscripts, ancient writings, scrolls, and other cultural materials are important resource about History. Many such material are got in less readable form. Therefore, some decaying materials run the risk of a complete and permanent loss of the valuable treasures of culture and knowledge.

AI-powered technologies aid in and streamline the processes of digitization and preservation. Using specifically designed OCR technologies, handwritten and printed texts found in old materials can be scanned and converted to digital formats. AI-based OCR technologies can analyze complex scripts, faded or faded writings, and various handwriting styles in old manuscripts. This not only preserves the intangible elements of the manuscripts, but it also saves time and effort by allowing researchers to search for specific content and access historical materials that can be used or had a profound impact worldwide.

Transcription is only one of the processes, AI has in handling manuscripts. A lot of ancient texts are incomplete or fragmented. With the aid of deep learning models that have been trained on historical and linguistic data sets, AI can accurately predict and generate missing reams of manuscripts. These reconstructions are useful for researchers who can be able to understand texts that had previously been inaccessible and reconstruct the lost parts of the text. AI researchers do their best on the same in collaboration with museum and digital libraries. As a result, collaboration is opened to a wider audience, and the presentation of artifacts can be explored in novel ways by students, scholars, and the public. All AI and digitization initiatives help preserve cultural and historical knowledge which will help researchers and future generations.

Reimagining Art and Culture through AI

The Artificial Intelligence is very useful in art and literature also. It recognizes reimagining of cultural human expression. AI is not a substitute for human kind. But it new interactive experiences allow users to merge old and new. AI technology can provide a new artwork influenced by the old and the traditional. AI can also compose poetry and music. The music can imitate the styles of the cultural genre and ancient music. Those AI software's do not solely focus replication. Instead, they mix old with new and form a new creative work. AI not only creates art but also process and understand the art. With computer vision technology we can uncover the techniques that human eyes couldn't see. The technology will peel away the layers of a painting or sculpture and analyses the cultural object. AI will analyze the brushstroke patterns, pigment mixtures, and categorize them. Even a old spoiled sculpture can be properly analysed properly though AI technologies. This in turn, deepens the understanding of the history of art and culture.

AI, in grouping with Virtual Reality, is evolving technology which gives immense understanding of cultural heritage. With Virtual Reality Technology, people can visit ancient cities and participate in cultural practices. Virtual Reality gives life to archaeological sites. The space, sound and activities provided by Virtual Reality is far beyond the experience which a museum offers. This technology connects present era with past era. With AI, Virtual Reality provides new visual presentation for the human imagination and originality. This will also aid in reimagining art and culture through AI.

Educational Transformation in the Humanities

Artificial Intelligence changes the way of teaching. All the subjects including Literature, History are taught more engaging due to AI Technologies. Personalized teaching is the core thing in the era of AI in Education. Teachers adapt the flow of teaching according to the level of students. Personalized learning students get real-time knowledge through doing and learning. This ensures effective and deep understanding of most complex humanistic subjects. This is achieved due to the pace and form of content delivered to the students.

Relevant readings are suggested by the intelligent educational system. The suggestion is carried out based on the students learning speed and interest. This student centric and more personalized approach makes students engaging and learn enthusiastically. AI is pioneering the humanities research and teaching. AI do analyse the existing data set of study material and give a more personalized notes on the subjects. Adaptive approach makes the student concentrate on learning the subjects. Data visualization gives different interpretation over evaluation of human history. All social movements and past actives can be interpreted using Data Visualization. The personalized content developed by AI tools make exclusive shift in the learning of humanities. It also allows more wide and contented understanding of human study and knowledge about the ethnic groups.

Ethical Considerations and Challenges

In this AI era everyone started using AI with or without the knowledge of the effects of it. So, it is more important for the developers to develop a responsible AI software with inclusive attention to the local customs. The ethical standards and partnership with communities and legacy of the ethnic people all should be taken into account. In a nutshell, AI technology should be handled with more responsibility. Below are the things to pointed out.

• Cultural Distortion:

When moving to fully technology oriented any sort of bias can lead to greater impact. AI always learn from the data we feed. So, the training data should be unbiased. If the training data is unfair cultural data, then result, is inappropriate.

• Automation and Authenticity:

Over automation results in lack of emotional connection. Artificial intelligence can produce music and other visual content. But too much usage of virtual content will lead to emotional damages and spoils creative work. The heart of creative work is human emotion. Which leads to miss the depth embedded in community bond.



• The Digital Dichotomy:

All the people of earth are not in same level understanding towards AI. Some AI morphing tools are mishandled. Such actions threaten common people. More people in world still not getting access to AI technologies. So, AI should be handled responsibly.

Conclusion

The usage of AI not only in commercial applications; it extends to humanities. AI is a very important element to recover tradition and historical data. AI can go depth into cultural analysis and present the content in a more visualizing manner. AI can act as a bridge between ancient and present era. AI will analyze cultural data and present them in a more pleasing and personalized manner. AI can also be applied to humanities. But when it comes to humanities the responsibility is very high. AI is not only a technical enabler it also builds the cultural identity across generations. Most notably AI connect old knowledge with new tools to give better education. AI has proven itself to be an essential material in the rapidly growing pitch of the humanities

Acknowledgment

The authors would like to express their sincere gratitude to St. Xavier's College (Autonomous), Palayamkottai for providing the necessary facilities and support to carry out this research.

Financial support and sponsorship

Nil.

Conflicts of interest

The authors declare that there are no conflicts of interest regarding the publication of this paper.

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