

Digital Libraries as a Gateway to Indian Knowledge: Preservation, Access and Dissemination

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Publication Date: 2026/10/08

Abstract: India has a history that spans thousands of years. Indian scholars have contributed greatly to fields such as the Vedas, Upanishads, Puranas, Ramayana, Mahabharata, Ayurveda, Yoga, Astrology, Mathematics, Astronomy, Vastu Shastra, Philosophy, Literature, Art and Folk Traditions. Much of this knowledge was passed down through manuscripts, texts, copper plates, inscriptions and oral traditions. Modern information and communication technologies now allow this knowledge to be preserved, managed and shared in form. E-libraries have become a way to keep and spread Indian knowledge traditions. Rare texts, manuscripts, research materials and historical documents in format are easily accessed by researchers, students and general readers around the world. This paper looks at the concept of e-libraries, the importance of knowledge traditions and the role of e-libraries in spreading knowledge. It also discusses opportunities, challenges and future solutions.

Keywords: Indian Knowledge Traditions, Digital Library, Digitalization, Knowledge Enhancement, Manuscripts and Information Technology.

How to Cite: Atul Abhiman Khairnar; Abhishek Krushna Mahajan (2026) Digital Libraries as a Gateway to Indian Knowledge: Preservation, Access and Dissemination. *International Journal of Innovative Science and Research Technology*, 11(10), 99-101. <https://doi.org/10.38124/ijisrt/26oct032>

I. INTRODUCTION

The library is a centre for collecting, preserving and sharing knowledge. Traditional libraries gather printed books, periodicals, reference books, manuscripts and other documents. With the rise of information technology the way libraries work has changed dramatically. The idea of e-libraries has evolved.

An e-library stores information in form and makes it available to users in many places through the internet. Converting fragile Indian bibliography into digital form allows long-term preservation.

The Indian knowledge tradition includes not religious or philosophical literature, but also a wide range of knowledge about mathematics, astronomy, medicine, agriculture, architecture, language, literature, environment, yoga, art and social life. Digital preservation of this knowledge is a need today.

➤ The Concept of Indian Knowledge

The knowledge tradition is the body of knowledge that has grown in India since ancient times was passed down through generations and has contributed to the intellectual, scientific, cultural and social development of society.

Some of the areas of Indian knowledge tradition are:

- The philosophy of the Vedas and Upanishads
- Indian philosophy
- Ayurveda and Traditional Medicine
- Yoga and Meditation
- Mathematics and astronomy
- Knowledge of agriculture and the environment
- Indian Languages and Literature
- Art, music and theatre
- Architecture and architecture (architecture)
- Culture and folklore

Because this knowledge exists in many forms it requires careful documentation and digital preservation.

➤ IKS is Distinguished by:

- Integration of scientific and spiritual knowledge
- Oral and written histories
- Education via the Gurukul system
- Manuscript culture
- Ethical base of knowledge (Dharma-based approach)
- Libraries played an important part in collecting this vast intellectual wealth.

➤ *The Role of Libraries in Preserving Indian Knowledge System*

The Indian Knowledge System (IKS) is important and multi-faceted, this system including India's ancient and traditional knowledge in areas such as philosophy, science, medicine, the arts, culture, linguistics, astronomy and governance.

II. THE ROLE OF E-BOOKS

E-libraries play a role in sharing Indian knowledge in the following ways:

➤ *Digital Preservation of Rare Texts*

Old books and manuscripts tend to deteriorate over time. By converting those into format the information can be shared while protecting the original documents.

➤ *Availability at the Level*

A digital library removes boundaries. A researcher can view a text stored in an institution in India from anywhere in the world.

➤ *Suitability for Research*

Digital materials in e-libraries enable researchers to search, compare and analyse reference literature. This encourages research on Indian knowledge traditions.

➤ *Spread of Languages*

Indian languages include Tamil, Hindi, Telugu, Marathi, Malayalam, Kannada, Bengali and Gujarati. Through e-libraries, literature in these languages can reach an audience.

➤ *Access to Knowledge for Students*

Digital tools allow students to study needed material without relying on library hours. This increases students' exposure to knowledge traditions.

➤ *Possible Tools of E-Libraries for Dissemination of Knowledge*

Institutions in India are working to preserve and share digital knowledge. Digital libraries, repositories, open educational resources, digital manuscript collections and online encyclopaedias can be used to spread Indian knowledge.

These materials may include:

- The ancient scriptures
- The hand-writing
- The management of research
- Old newspapers
- A number of rare books
- Records and documents
- Folk literature
- Audio and video collection
- Research reports
- Digital literature in Indian languages

➤ *E-Libraries and the Democratization of Knowledge*

Traditional knowledge resources may be limited to certain libraries, universities or research institutions. The e-library makes this information available to a community.

Providing access to knowledge resources for students, teachers, researchers, librarians and general readers is essential for democratizing knowledge. Students, from rural and remote areas can connect with the Indian knowledge tradition through the internet.

III. CHALLENGES FACED BY E-BOOKS

There are also some difficulties in preservation of Indian knowledge tradition.

➤ *Intellectual Property*

Copyright and intellectual property rights must be respected when making all texts available in format.

➤ *Cost of Digitization*

Financial and technical resources are required for high-quality scanning of texts and manuscripts metadata generation OCR and digital archive management.

➤ *Accuracy of OCR for Languages*

When doing OCR of old documents in Indian languages accuracy may suffer due to font design old script, paper quality and linguistic diversity.

➤ *The Digital Divide*

Because of differences in internet access, digital tools and digital literacy not all segments of society have access to digital knowledge.

➤ *Question of Authenticity*

It is necessary to verify the authenticity source and context of Indian knowledge available through the digital medium.

➤ *Measures*

The following measures can help effective preservation of Indian knowledge traditions:

- Planned digitization of rare Indian texts and manuscripts
- Development of more accurate OCR technology for Indian languages
- Use of standardized metadata and classification methods
- Promotion of cooperation among libraries, universities, museums and research institutions
- Increase access to public knowledge through open access
- Creation of a digital repository based on Indian knowledge traditions
- Conducting training programmes on digital literacy and Indian knowledge traditions for students
- Development of digital preservation strategies for long-term preservation of digital content

IV. OPPORTUNITIES FOR THE FUTURE

In the future Indian knowledge can be spread effectively with the help of digital technology. Technologies such as intelligence, machine learning, OCR, translation technology sound-based search and GyanGraph can make it easier to find information from old texts and provide it in different languages.

The creation of a digital portal on Indian knowledge traditions, thematic e-collections and multilingual digital repositories will open many new research opportunities for researchers.

V. CONCLUSION

The Indian knowledge tradition is a part of India's cultural, intellectual and scientific heritage. It is our responsibility to preserve and pass on this knowledge to future generations. The e-library can be a digital medium for this work.

The availability of texts, manuscripts, research materials and knowledge resources in Indian languages in digital format enables long-term preservation and global dissemination. Therefore e-libraries should be seen not as modern information services but also as vital centres for digital preservation and dissemination of Indian knowledge traditions.

In the future with efforts from libraries universities, research institutions, government and technology a more comprehensive and sustainable digital repository of Indian knowledge will be created.

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