

Two-day International Seminar on Intelligent Libraries: Harnessing AI Driven Future

Organised by

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in collaboration with

Dept. of Library and Information Science

Jadavpur University, Kolkata

and

Muralidhar Girls' College, Kolkata

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Introduction and Rationale

Artificial Intelligence (AI) is one of the most significant technological advancements and a transformative force of the 21st century. It refers to the ability of machines to perform tasks efficiently that normally require human intelligence, such as learning, reasoning, problem-solving, self-correction, perception, language understanding etc. AI has rapidly evolved from a theoretical concept into a practical tool embedded into systems that are integral to daily human activities of modern life. Its ability to mimic human intelligence is reshaping industries, healthcare, transportation, finance, governance and decision making, communication, infrastructure, education and various other sectors.

In the field of higher education, AI is bringing a paradigm shift in how teaching, learning, and research are conducted. Universities and colleges around the world are adopting AI-based tools and adaptive learning platforms to create more personalized learning experiences. AI models and intelligent search algorithms aids simulations, predictive analysis, and decision-making. AI has significantly transformed the research landscape by enhancing the speed, efficiency, and scope of scientific inquiry. It enables researchers to process and analyse vast amounts of data quickly, uncover patterns, and generate insights that would be difficult to obtain manually. Equally important is AI's role in fostering inclusivity in education. Through real-time translation, speech-to-text technologies, and accessible content generation, AI is helping break barriers for students with disabilities or those from non-native language backgrounds.

In the domain of library science, AI is revolutionizing the way information is organized, accessed, and preserved. Traditional library systems are being upgraded by adopting AI driven technologies to significantly enhance operational efficiency, improve the user experience, and advance digital access and preservation. The applications are vast and rapidly expanding, ranging from smart cataloguing, intelligent discovery systems, digital archiving, content recommendation to addressing crucial ethical concerns and promoting sustainable AI practices.

Despite its benefits, AI raises several ethical and social challenges. Issues like data privacy, algorithmic bias, accountability in decision-making need urgent attention. There are growing calls for transparent, fair, and responsible AI development, guided by ethical principles and inclusive governance. Thus, there is a growing need for robust knowledge exchange among LIS professionals, educators, technologists, policymakers, and researchers. This seminar aims to provide a comprehensive platform to explore the potentials, challenges, and future directions of AI with a strong emphasis on inclusivity, ethical frameworks, and capacity building.

Objectives

This seminar seeks to:

- **Explore AI's role and impact** on core library functions, including acquisition, cataloguing, metadata creation, and user services, intelligent archiving, digitization etc.
- **Discuss user interface advancements and discovery tools** enhanced by AI for personalized and predictive services.
- **Encourage collaboration between educators, librarians, and technologists** for the effective adoption and implementation of AI solutions.
- **Sharing best practices, real-world case studies** as well as innovative approaches towards using AI in academic environments.
- **Understand AI's role in scholarly communication**, including metric study, research management, and publication workflows.
- **Critically analyse the ethical, legal, and policy implications** of AI, addressing issues of bias, privacy, and intellectual property rights (IPR).
- **Highlight the importance of AI in capacity building** in educational and professional training.
- **Investigate how AI can support inclusive services** and bridge digital divides in multilingual and underserved communities.

Themes and Sub-themes

1. AI Application in Library Operations

- AI in Acquisition and Collection Development
- AI-based Cataloguing and Metadata Generation
- Automated Classification and Indexing systems
- AI-powered Library Chatbots and Reference Services
- Smart Circulation and Inventory Systems
- AI in Interlibrary Loan Optimization

2. AI and Digital Libraries

- Machine Learning in Digital Archiving and Curation
- AI-driven Digitization and Preservation.
- AI-driven Workflows, Managing Multimedia and Other Collection
- Intelligent Image and Text Recognition (OCR, Handwriting Recognition)
- Metadata Enrichment and Interoperability Using AI
- AI for Digital Asset Management

3. User Experience and Discovery

- AI-driven Discovery Systems
- AI- driven Predictive and Personalized Recommendation
- Human-AI Interaction in Library Interfaces
- Collaborative Learning Platforms

4. AI in Scholarly Communication

- AI for Metric Studies and Citation Tracking
- Predictive Analytics in Research Trends and User Behaviour
- AI in Research Data Management
- AI in Plagiarism Detection and Academic Integrity

5. Higher Education and AI Capacity Building

- AI Modules in Curriculum
- AI Based Skill Development for Professionals
- AI Literacy Among Users
- Institutional Capacity Building

6. AI and Public Library

- Community Engagement and Outreach Services
- Accessibility and Inclusive Services
- AI tools in Information Literacy Programme
- Public Library Decision Making and Policy Design

7. Ethics, Legal and Policy Dimensions in Libraries

- Ethical Use of AI
- Fairness, Bias and neutrality in Library AI Systems
- Data Privacy, Surveillance and Security in AI-Environment
- IPR and AI-Generated Content
- AI Policies for Libraries

8. Innovative and Sustainable AI in Libraries

- Sustainability in AI Infrastructure and Practices
- Community archives, and cultural heritage preservation using AI
- Bridging digital divide using AI-driven services
- AI-based language support in multilingual library environments
- AI for disaster recovery (digital assets)

Any other related topic relevant to the scope of the seminar is welcomed.

Target Audience

This seminar is designed for a diverse group of stakeholder keen on the impact of AI. Our target audience includes:

- **Library and Information Science Professionals:** Practitioners looking to integrate AI into their daily operations.
- **Academicians and Educators:** Those interested in how AI can enhance teaching, curriculum design, student engagement, and assessment.

- **Students and Researchers:** Learners and Researchers at the forefront of scholarly information management and discovery.
- **AI Developers and Technologists:** Innovators building the AI tools that will power future libraries.
- **Policy Makers and Legal Experts:** Individuals responsible for shaping the ethical and legal landscape of AI in information access.
- **Digital Archivists and Cultural Heritage Professionals:** Stewards of our digital past, exploring AI for preservation and access.

Conclusion

The integration of Artificial Intelligence into academic and library systems represents a transformative opportunity to enhance information access, streamline operations, and deliver more personalized user experiences. This seminar aims to explore the evolving impact of AI highlighting both the potential benefits and the challenges that accompany this technological shift. By fostering dialogue among librarians, technologists, educators, and policymakers, we hope to inspire innovative practices that will ensure accessibility and inclusivity for knowledge and learning in the digital age.