

Integrating Artificial Intelligence in Library and Information Science: A Comprehensive Review and Future Directions

Mr. Avhad Sachin Vilas

Assistant Librarian

Santosh N Darade Polytechnic, Yeola, Nashik, Maharashtra, India

Abstract: *In recent years, the integration of artificial intelligence (AI) technologies into various fields has sparked significant advancements, including in Library and Information Science (LIS). This paper presents a comprehensive review of the utilization of AI in LIS, examining its applications, benefits, challenges, and future directions. By analyzing existing literature and case studies, this research aims to provide insights into the current state of AI adoption in LIS and to identify potential avenues for further research and development.*

Keywords: Artificial Intelligence, Library and Information Science, Information Retrieval, Metadata Management, Virtual Assistants, Chatbots, Data Analysis, Decision Support, Ethical Implications, Future Directions