

Cybersecurity, Privacy, and Ethical Issues in Digital Libraries in the AI Era

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Abstract: *This paper examines the evolving landscape of digital libraries amidst the proliferation of artificial intelligence technologies. As digital libraries increasingly adopt AI-powered systems for content management, user recommendations, and data analysis, they face unprecedented challenges related to cybersecurity, privacy, and ethics. Through analysis of current literature and case studies, this research identifies key vulnerabilities in digital library systems, evaluates contemporary privacy frameworks, and proposes ethical guidelines for AI implementation in these environments. The findings reveal critical gaps in current security protocols, highlight tensions between personalization and privacy, and demonstrate the need for transparent AI governance. This study contributes a comprehensive framework for digital library administrators and policymakers to address these challenges while maintaining the core values of knowledge accessibility and preservation*

Keywords: digital libraries, artificial intelligence, cybersecurity, privacy, ethics, information accessibility

