

The Convergence of Artificial Intelligence and Web Services: Reshaping the Future of Libraries

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Abstract: *The digital revolution has significantly redefined the role of libraries in the knowledge society. Beyond their traditional role as repositories of books, libraries today are becoming intelligent knowledge hubs powered by Artificial Intelligence (AI) and advanced web services. This paper examines how the convergence of AI and web services is transforming library functions, including information retrieval, personalized services, and digital resource management. It further highlights opportunities, challenges, and future directions for academic, research, and public libraries. The study concludes that while AI-powered web services have the potential to reshape the future of libraries, careful planning, ethical practices, and inclusive approaches are essential for sustainable development*

Keywords: Artificial Intelligence, Web Services, Smart Libraries, Digital Transformation, Information Access

