

# **Heritage Odyssey: Bridging the past and future with AI-Enhanced Heritage Tourism**

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**Abstract:** The growth in artificial intelligence (AI) has revolutionized the experience, management, and preservation of heritage tourism with new technologies to enhance visitor experience and cultural preservation. This paper offers AI-based solutions to improve the tourist experience at heritage sites, such as real-time, voice-assistance, multilingual insights, interactive map functionality, and budget planning. These features enable the tourists to have an interactive experience with the help of real-time data processing. This paper examines the trends in AI-enabled smart tourism based on research analysis, mainly focusing on integrating Large Language Models (LLMs), Natural Language Processing (NLP), and real-time data analysis. These technologies provide personalized recommendations and dynamic content and enhance the preservation and promotion of heritage sites to various stakeholders. This paper utilizes search engines for keyword mapping and citation networks, contributing to advancements in this research area. It also examines the performance of AI in offering interactive experiences and personalized suggestions and enhancing voice assistance in heritage tourism. The paper also presents the benefits and limitations of current AI-based heritage conservation initiatives. It offers insights for future research and technological development to facilitate sustainable and interactive heritage tourism experiences.

**Keywords:** Heritage Tourism, Artificial Intelligence, Large Language Models (LLM), Voice Assistance, Multilingual Insights, Natural Language Processing (NLP), Interactive Maps, Speech Recognition.