

Smart Tourism: Enhancing Visitors Experience through Technology

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Abstract: *This research paper presents a multi-module smart tourism system that integrates cutting-edge technologies such as Natural Language Processing (NLP), YOLO-based real-time pollution detection, and AI-driven chatbots. The system is designed to enhance tourist experience by offering personalized travel recommendations, monitoring environmental cleanliness in real-time, and providing automated assistance through a chatbot. The proposed architecture ensures a seamless and eco-friendly travel experience, leveraging AI models for effective data analysis and automated notifications for sustainability management. The paper demonstrates how technology can be harnessed for responsible tourism, promoting both user satisfaction and environmental consciousness.*

Keywords: Deep learning, Smart Tourism, Natural Language Processing, YOLO, Chatbot, Sustainable Tourism, Real-time Monitoring

