AI-Assisted Multimodal Travel Planner Website

Abstract

Travel planning has become increasingly complex due to the availability of multiple transportation modes, fluctuating costs, and scattered travel information across platforms. This project presents an AI-assisted multi-modal travel planner website designed to simplify and optimize end-to-end journey planning. The system integrates real-time routing, transportation, and location-based APIs to provide accurate travel routes, distance, duration, and cost estimates across various modes such as flights, trains, buses, and road transport. In addition, the platform maintains user profiles and stores past travel history, preferences, and budget patterns to enable personalized travel recommendations. Machine learning techniques analyze user behavior and historical data to suggest optimal routes, preferred travel modes, nearby attractions, and relevant local events occurring at the destination during the travel period. The system incorporates event data to enhance itinerary planning by aligning travel schedules with festivals, cultural programs, exhibitions, and local activities. Interactive map visualization and itinerary management features allow users to plan journeys efficiently and intuitively. By combining real-time data integration, intelligent recommendation mechanisms, and local event awareness, the proposed system overcomes the limitations of traditional travel agencies and generic AI tools. The project demonstrates a comprehensive, data-driven approach to travel planning, aiming to enhance user convenience, decision-making accuracy, and overall travel experience, thereby contributing to smarter, more engaging, and well-informed travel planning.

Team Members: Emi Jayan U2304029
Madhav Renil U2304044
MEHRIN A S U2304047
NANDANA S U2304055

Name and Signature of Guide:

Name and Signature of Project Coordinator: