

AI-Powered Smart Tourism System

**Navale Priya Balu¹, Malunjkhar Sahil Prakash², Nikam Ghanshyam Dattatray³,
Shinde Prajwal Vishwanath⁴**

Department of Computer Engineering¹⁻⁴

Matoshri College of Engineering and Research Center, Eklahare, Nashik

Abstract: *Travel plays a vital role in modern life, offering relaxation, cultural enrichment, business opportunities, and personal growth. However, planning an ideal trip that aligns with time, cost, and personal preferences remains a challenging and time-consuming process. Traditional travel agencies often provide fixed, profit-oriented itineraries that fail to address individual needs, resulting in limited flexibility, increased expenses, and reduced satisfaction.*

The proposed AI-based Tours & Travels Planning System offers a smart, personalized, and budget-aware solution for modern travelers. By allowing users to input their source and destination, the system generates customized recommendations for nearby hotels, restaurants, attractions, and travel routes. It leverages AI algorithms, sentiment analysis of reviews, and geo-tagging integration with map services to deliver optimized travel suggestions. Additionally, it performs automatic budget estimation, covering accommodation, food, and transportation costs, providing travelers with a clear financial overview.

By incorporating parameters such as budget, distance, user ratings, seasonal factors, and personal preferences, the system ensures efficient, cost-effective, and user-centered travel planning. This intelligent approach not only reduces manual effort but also enhances user satisfaction by enabling smarter, faster, and more enjoyable travel experiences.

Keywords: AI-based Travel Planning, Smart Tourism, Personalized Recommendations, Budget Estimation, Geo-Tagging, Sentiment Analysis, Travel Optimization

