

Developing an Artificial Intelligent driven Travel Budget Planner with Personalized Recommendations

Introduction

Travel planning can be overwhelming, especially when it involves juggling different platforms for cost estimates, destination ideas, and visa information. This project introduces an AI-driven travel budget planner that provides users with personalized travel recommendations based on their preferences, budget, and location. By integrating OpenAI's GPT-4 and using smart filtering, the system offers intelligent suggestions, cost breakdowns, and visa insights — all in one streamlined interface.





Problem Statement

Planning travel is often time-consuming and fragmented across multiple platforms. Users struggle to find accurate cost estimates, visa requirements, and curated suggestions without switching between websites. Most travel tools offer generic results and lack personalized, budget-aware recommendations.

Objectives

- To develop a smart travel planning system powered by AI.
- To generate destination suggestions based on user preferences and budget.
- To estimate travel costs, including transport, food, and accommodation.
- To incorporate visa and currency filtering for personalized guidance.

Methodology

The system is built using Django (Python) and integrates OpenAI's GPT-4 to dynamically generate destination data, hotel listings, event suggestions, visa summaries, and cost breakdowns. User inputs are captured through validated forms and used to filter results. Templates dynamically render data with fallback handling. Session-based storage ensures continuity across pages.

Key Features

- AI-powered destination & event recommendations
- · Budget-based travel filtering
- Personalized results via user profile (country, currency, etc.)
- Estimated costs for hotels, food, and transport
- Visa check integration (via AI)
- Responsive web interface with login/register modals
- Search history stored in user session
- Clean, user-friendly design for travelers of all types

Conclusion

The AI-Driven Travel Budget Planner successfully delivers personalized, budget-aware travel suggestions in an intuitive and interactive format. While current results rely on AI-generated content, the system demonstrates strong potential for real-world use. Future improvements will focus on integrating external APIs for live prices, verified visa data, and real-time bookings. This tool paves the way toward smarter, faster, and more personalized travel planning.

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