**FULL STACK**

**PROJECT ABSTRACT**

**Submitted by,**

**Anagha Harindranath**

**S2 Mtech AI**

**AM.SC.P2ARI24015**

**AI-Based Travel Planner & Packing Assistant**

**Abstract:**

In today's fast-paced world, planning a trip can be overwhelming, with travelers needing to consider destinations, budgets, packing essentials, and real-time conditions. This project aims to develop an AI-powered web-based Travel Planner & Packing Assistant that streamlines the travel preparation process.

Users can input key trip details such as destination, duration, budget, and climate preferences. The AI then provides:  
Personalized Destination Suggestions – Recommends travel spots based on user interests and budget.  
Smart Packing List – Generates an optimized packing checklist tailored to the weather, planned activities, and personal preferences.  
Real-Time Travel Insights – Offers dynamic travel tips, local guidelines, and itinerary suggestions based on live data.

The system will integrate machine learning models, weather APIs, and real-time travel databases to ensure accurate and efficient recommendations. This AI-driven approach enhances travel convenience, reduces last-minute hassles, and ensures a well-prepared journey tailored to the user's needs.

TYPES OF USERS AND FEATURES

**1. Casual Travelers** (Tourists, Families, Solo Travelers)

**User Needs:**

* Simple and intuitive interface
* Quick destination suggestions based on budget and interests
* Automated packing list
* Real-time travel updates (weather, restrictions, flight delays, etc.)

**Access & Interaction:**

* Web-based access, optimized for mobile & desktop
* Social login integration for easy sign-up
* Export packing list & itinerary as PDF

**2. Business Travelers (Corporate Employees, Frequent Flyers)**

**User Needs:**

* Quick itinerary creation with professional efficiency
* Packing suggestions for formal wear, gadgets, and work-related essentials
* Expense tracking & budget optimization
* Real-time updates on flights, meetings, and local business services

**Access & Interaction:**

* Multi-device sync (work laptop, mobile)