# **Al-Powered Trip Planner**

**Technologies Used:** Python, CrewAl, OpenAl GPT, LangChain, python-dotenv, Visual Studio Code, Git, GitHub

### **Project Overview:**

Developed an AI-based trip planning assistant that generates personalized 5-day travel itineraries using autonomous agents built with CrewAI and OpenAI's GPT models. The project simulates the behavior of a human travel expert and was designed for modular expansion and collaboration among specialized agents such as hotel, budget, and food advisors.

# **Key Features:**

- Implemented a **Trip Planner agent** using CrewAl that understands goals and backstory to generate intelligent travel plans.
- Designed the system to take a specific task (e.g., "Plan a 5-day trip to Tokyo focusing on culture and food") and return a well-structured itinerary.
- Used python-dotenv to securely load OpenAl API keys from a .env file.
- Built with **Visual Studio Code on Windows**, using virtual environments for isolation and requirements.txt for dependency management.
- Pushed the complete project to GitHub using Git.

#### Code Structure (main.py):

# 1. Import Libraries

- o crewai, Agent, Crew for Al agent framework.
- dotenv and os to manage and load environment variables.

## 2. Define Agent

o Role: Trip Planner

Goal: Build personalized travel plans

Backstory: Specializes in cultural and culinary travel planning

#### 3. Create Crew

- o Crew includes the planner agent.
- A task is assigned with a specific trip goal (e.g., Tokyo itinerary).

## 4. Run the Application

- The script runs via command line using python main.py.
- Output is printed in the terminal with a full trip itinerary.