

# AI TRAVEL PLANNER

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## **GROUP MEMBERS:**

Anusha Gali (002898649)

Nikhil Kotha (002651481)

## **PROBLEM STATEMENT:**

Modern travelers are overwhelmed by the fragmented nature of trip planning. To secure flights, compare hotels, and build an itinerary, a user must juggle multiple airline and booking websites, manually sift through hundreds of options, and still worry whether they've chosen the best combination of price, convenience, and experience. This time-consuming process not only causes decision fatigue but also leaves significant room for sub-optimal choices—especially when trade-offs (e.g., flight duration vs. cost, hotel rating vs. location) are hard to evaluate side-by-side.

The goal of this project is to create an AI-powered travel-planning assistant that unifies the entire workflow—from real-time search of flights and hotels to an automatically generated, day-by-day itinerary—within a single, interactive web app. By combining live data from Google Flights and Google Hotels (via SerpAPI) with a large language model (Gemini 2 Flash) for reasoning and natural-language recommendations, the system will:

1. **Retrieve** the most relevant flight and hotel options based on user-defined dates, destinations, and budget.
2. **Analyze** these options with an LLM to rank trade-offs and produce concise, human-readable recommendations.
3. **Allow** selection of preferred flight and hotel while persisting choices across interactions.
4. **Synthesize** the chosen logistics into a personalized, markdown itinerary that includes activities, dining, and local tips.
5. **Deliver** the itinerary instantly for download, reducing planning time from hours to minutes and increasing user confidence in their travel decisions.

Success will be measured by the system's ability to

- (a) surface competitive travel options within seconds,
- (b) provide clear, justified recommendations that users find trustworthy, and
- (c) cut overall planning effort by at least 70 % compared with manual methods.

## **BACKGROUND:**

Agentic AI refers to autonomous AI systems that operate proactively, make independent decisions, and execute complex tasks without continuous human intervention. By leveraging the power of Agentic AI, this application demonstrates how AI agents collaborate to streamline the planning process - retrieving real-time travel data, analyzing options, and generating AI-driven recommendations using Large Language Models (LLM)

## **KEY CHARACTERISTICS:**

1. **Autonomous Decision Making** — Reduces human effort by allowing AI to think, reason, and take actions automatically.
2. **Multi-Agent Collaboration** — Allows different AI agents to specialize in tasks, improving accuracy and efficiency.
3. **Scalability & Efficiency** — AI agents execute parallel tasks, reducing processing time compared to traditional workflows.
4. **Enhanced User Experience** — Delivers faster, smarter, and more personalized solutions for complex tasks.

Unlike traditional AI models that require step-by-step commands, Agentic AI works dynamically, making real-time decisions, collaborating with other agents, and optimizing workflows based on contextual data.

## **KEY FEATURES OF OUR AGENTIC AI:**

Here's a breakdown of the most important features that make this AI travel planner powerful:

### **1. Flight Search Automation**

- Retrieves real-time flight data from Google Flights via SerpAPI
- Filters flights based on price, layovers, and travel time.
- AI recommends the best flight based on cost-effectiveness and convenience.

### **2. Hotel Recommendations**

- Searches real-time hotel availability from Google Hotels
- Filters based on location, budget, amenities, and user ratings.
- AI suggests the best hotel by analyzing factors like proximity to key locations.

### **3. AI-Powered Analysis & Recommendations**

- Gemini LLM-powered AI agent evaluates travel options.

- Uses Crew AI to coordinate multiple AI agents for better decision-making.
- AI explains its recommendation for flights and hotels, providing insights.

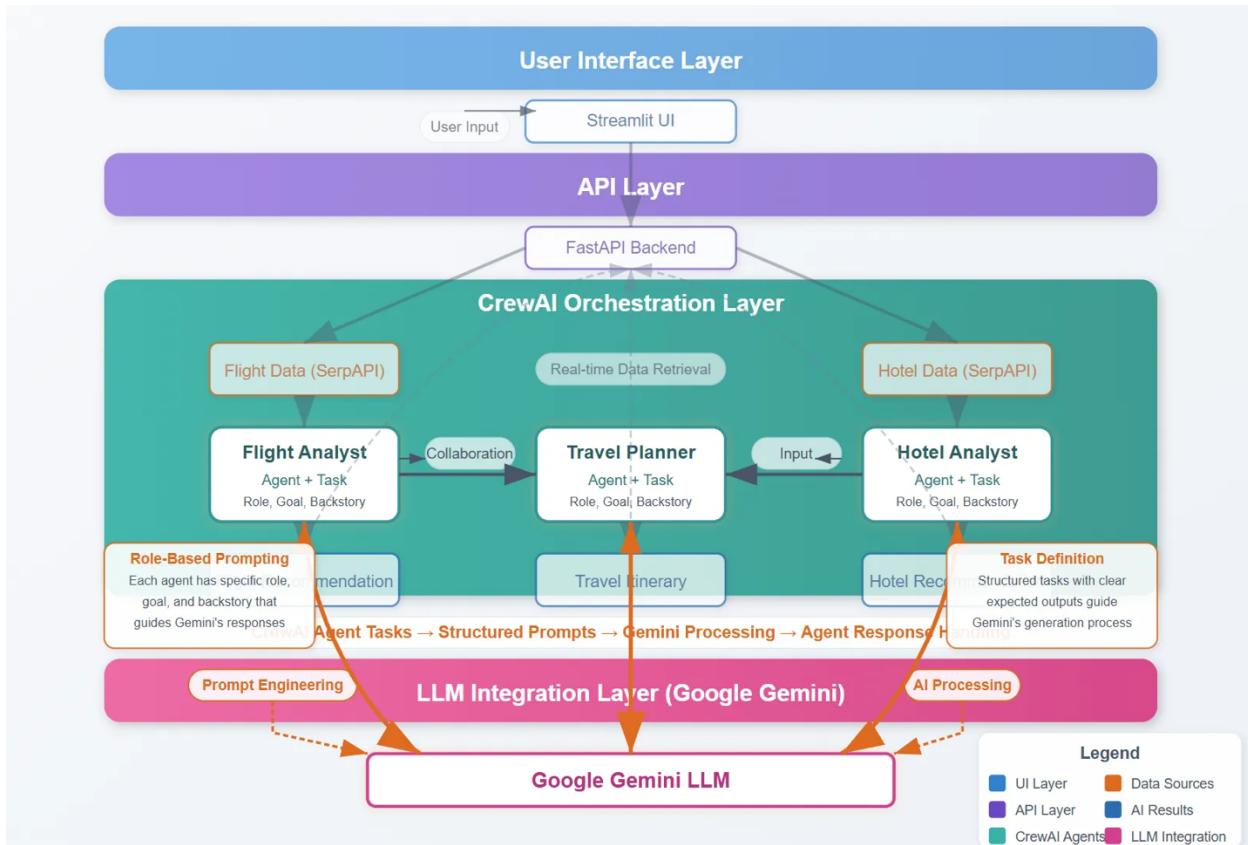
#### **4. Dynamic Itinerary Generation**

- AI builds a structured travel plan based on flight and hotel bookings.
- Generates a day-by-day itinerary with Must-visit attractions, Restaurant recommendations, Local transportation options

#### **5. User-Friendly API Integration**

- API endpoints allow users to search for flights, hotels, and request AI-driven recommendations.
- Enables seamless integration into a frontend UI (Streamlit).

## ARCHITECTURE DIAGRAM:



## IMPLEMENTATION GUIDE:

Let's go through a step-by-step breakdown of building this AI-powered travel planning system:

### Pre-Requisites:

Before diving into code, please ensure following pre-requisites are met in local computer,

1. Python 3.8+ installed.

2. SerpAPI key for fetching real-time flight and hotel data.
3. Google Gemini API key for AI recommendations.
4. CrewAI for orchestrating AI-driven agents.

## **SETUP:**

### **1. After cloning the repository, go to the project Folder**

```
cd gemini-crewai-travel-planner
```

### **2. Create and activate a virtual environment**

```
# Create virtual environment
python -m venv venv

# Activate virtual environment
# On Windows
venv\Scripts\activate
# On macOS/Linux
source venv/bin/activate
```

### **3. Install Dependencies**

```
pip install -r requirements.txt
```

### **4. Configure API keys**

**Note:** Set your API keys in the gemini2\_travel\_v2.py file

```
# Load API Keys
GEMINI_API_KEY = os.getenv("GOOGLE_API_KEY",
                            "your_gemini_api_key_here")
SERP_API_KEY = os.getenv("SERP_API_KEY",
                        "your_serpapi_key_here")
```

- Get a Gemini API key from [Google AI Studio](#)

- Get a SerpAPI key from [SerpAPI](#)

```

import os
import uvicorn
import asyncio
import logging
from fastapi import FastAPI, HTTPException
from pydantic import BaseModel
from typing import List, Optional
from serpapi import GoogleSearch
from crewai import Agent, Task, Crew, Process, LLM
from datetime import datetime
from functools import lru_cache

# Load API Keys
GEMINI_API_KEY = os.getenv("GOOGLE_API_KEY",
    "gemini_api_key_here")
SERP_API_KEY = os.getenv("SERPER_API_KEY",
    "serpapi_key_here")

# Initialize Logger
logging.basicConfig(level=logging.INFO, format="%(asctime)s -
%(levelname)s - %(message)s")
logger = logging.getLogger( name )

```

## 5. Initialize Google Gemini AI(LLM)

```

@lru_cache(maxsize=1)
def initialize_llm():
    """Initialize and cache the LLM instance to avoid repeated
initializations."""
    return LLM(
        model="gemini/gemini-2.0-flash",
        provider="google",
        api_key=GEMINI_API_KEY
    )

```

## 6. Define Pydantic Models

```
class FlightRequest(BaseModel):
    origin: str
    destination: str
    outbound_date: str
    return_date: str

class HotelRequest(BaseModel):
    location: str
    check_in_date: str
    check_out_date: str

class ItineraryRequest(BaseModel):
    destination: str
    check_in_date: str
    check_out_date: str
    flights: str
    hotels: str

class FlightInfo(BaseModel):
    airline: str
    price: str
    duration: str
    stops: str
    departure: str
    arrival: str
    travel_class: str
    return_date: str
    airline_logo: str

class HotelInfo(BaseModel):
    name: str
    price: str
    rating: float
    location: str
    link: str

class AIResponse(BaseModel):
    flights: List[FlightInfo] = []
    hotels: List[HotelInfo] = []
    ai_flight_recommendation: str = ""
```

```
ai_hotel_recommendation: str = ""  
itinerary: str = ""
```

## 7. FAST API Initialization for Backend Processing

```
from fastapi import FastAPI, HTTPException  
  
app = FastAPI(title="Travel Planning API", version="1.0.1")
```

## 8. Real time Data Retrieval for Flight & Hotel using SERP API

AI Agent	Role	Task Performed
AI Flight Analyst	Analyzes flight options	Picks best flight on price, duration, and stops
AI Hotel Analyst	Analyzes hotel options	Picks best hotel based on rating, price, and location
AI Travel Planner	Generates an itinerary	Creates a structured day-by-day plan

```
async def run_search(params):  
    """Generic function to run SerpAPI searches asynchronously.""""  
    try:  
        return await asyncio.to_thread(lambda:  
            GoogleSearch(params).get_dict()  
    except Exception as e:  
        logger.exception(f"SerpAPI search error: {str(e)}")  
        raise HTTPException(status_code=500, detail=f"Search API error: {str(e)}")  
  
    async def search_flights(flight_request: FlightRequest):  
        """Fetch real-time flight details from Google Flights using SerpAPI.""""  
        logger.info(f"Searching flights: {flight_request.origin} to  
        {flight_request.destination}")  
  
        params = {
```

```

    "api_key": SERP_API_KEY,
    "engine": "google_flights",
    "hl": "en",
    "gl": "us",
    "departure_id": flight_request.origin.strip().upper(),
    "arrival_id": flight_request.destination.strip().upper(),
    "outbound_date": flight_request.outbound_date,
    "return_date": flight_request.return_date,
    "currency": "USD"
}

search_results = await run_search(params)
flights = search_results.get("flights")

return flights

```

```

async def search_hotels(hotel_request: HotelRequest):
    """Fetch hotel information from SerpAPI."""
    logger.info(f"Searching hotels for: {hotel_request.location}")

    params = {
        "api_key": SERP_API_KEY,
        "engine": "google_hotels",
        "q": hotel_request.location,
        "hl": "en",
        "gl": "us",
        "check_in_date": hotel_request.check_in_date,
        "check_out_date": hotel_request.check_out_date,
        "currency": "USD",
        "sort_by": 3,
        "rating": 8
    }

    search_results = await run_search(params)
    hotels = search_results.get("properties")
    return hotels

```

## 9. Define Multi-Agent Task, Crew, Process

Now let's set up our multi-agent system using CrewAI:

### **Agent 1: Flight Analysis:**

- Flight Analyst Agent receives flight options
- Gemini LLM analyzes price, duration, stops, and convenience
- AI recommends optimal flight with detailed reasoning

### **Agent 2: Hotel Analysis:**

- Hotel Analyst Agent receives accommodation options
- Gemini LLM compares price, rating, location, and amenities
- AI recommends optimal hotel with detailed reasoning

### **Agent 3: Itinerary Generation:**

- Itinerary Agent uses flight and hotel recommendations
- Creates day-by-day plan with attractions, restaurants, and logistics
- Optimizes schedule based on geographical proximity
- Includes time estimates and practical travel tips

STEP	TASK	HANDLED BY	AI ROLE
1. Fetch Data	Get Flight & hotel data from SERPAPI	FASTAPI Backend	-

2. Analyse Flights	Recommend best flight	AI Flight Analyst	Multi-Agent AI
3. Analyze Hotels	Recommend best hotel	AI Hotel Analyst	Multi-AgentAI
4. Generate Itinerary	Create daily travel plan	AI Travel Planner	Multi-AgentAI
5. Orchestration	Coordinate agents & tasks	CREWAI	Multi-AgentAI

```

async def get_ai_recommendation(data_type, formatted_data):
    logger.info(f"Getting {data_type} analysis from AI")
    llm_model = initialize_llm()

    # Configure agent based on data type
    if data_type == "flights":
        role = "AI Flight Analyst"
        goal = "Analyze flight options and recommend the best one considering price, duration, stops, and overall convenience."
        backstory = f"AI expert that provides in-depth analysis comparing flight options based on multiple factors."
        description = """
                    Recommend the best flight from the available options, based on the details provided below:

                    **Reasoning for Recommendation:**
                    - **Price:** Provide a detailed explanation about why this flight offers the best value compared to others.
                    - **Duration:** Explain why this flight has the best duration in comparison to others.
                    - **Stops:** Discuss why this flight has minimal or optimal stops.
                    - **Travel Class:** Describe why this flight provides the best comfort and amenities.
"""
    
```

Use the provided flight data as the basis for your recommendation. Be sure to justify your choice using clear reasoning for each attribute. Do not repeat the flight details in your response.

"""

```
elif data_type == "hotels":  
    role = "AI Hotel Analyst"  
    goal = "Analyze hotel options and recommend the best one  
    considering price, rating, location, and amenities."  
    backstory = f"AI expert that provides in-depth analysis comparing  
    hotel options based on multiple factors."  
    description = """"
```

Based on the following analysis, generate a detailed recommendation for the best hotel. Your response should include clear reasoning based on price, rating, location, and amenities.

#### \*\*AI Hotel Recommendation\*\*

We recommend the best hotel based on the following analysis:

#### \*\*Reasoning for Recommendation\*\*:

- \*\*Price:\*\* The recommended hotel is the best option for the price compared to others, offering the best value for the amenities and services provided.
- \*\*Rating:\*\* With a higher rating compared to the alternatives, it ensures a better overall guest experience. Explain why this makes it the best choice.
- \*\*Location:\*\* The hotel is in a prime location, close to important attractions, making it convenient for travelers.
- \*\*Amenities:\*\* The hotel offers amenities like Wi-Fi, pool, fitness center, free breakfast, etc. Discuss how these amenities enhance the experience, making it suitable for different types of travelers.

#### \*\*Reasoning Requirements\*\*:

- Ensure that each section clearly explains why this hotel is the best option based on the factors of price, rating, location, and amenities.
- Compare it against the other options and explain why this one stands out.
- Provide concise, well-structured reasoning to make the recommendation clear to the traveler.
- Your recommendation should help a traveler make an informed

```

decision based on multiple factors, not just one.

"""
else:
    raise ValueError("Invalid data type for AI recommendation")

# Create the agent and task
analyze_agent = Agent(
    role=role,
    goal=goal,
    backstory=backstory,
    llm=llm_model,
    verbose=False
)

analyze_task = Task(
    description=f'{description}\n\nData to
analyze:\n{formatted_data}',
    agent=analyze_agent,
    expected_output=f'A structured recommendation explaining the
best {data_type} choice based on the analysis of provided details.'
)

# Define CrewAI Workflow for the agent
analyst_crew = Crew(
    agents=[analyze_agent],
    tasks=[analyze_task],
    process=ProcessSEQUENTIAL,
    verbose=False
)

# Execute CrewAI Process
crew_results = await asyncio.to_thread(analyst_crew.kickoff)
return str(crew_results)

```

- Now, let's implement our Itinerary Planner agent:

```

async def generate_itinerary(destination, flights_text, hotels_text,
check_in_date, check_out_date):

```

```
"""Generate a detailed travel itinerary based on flight and hotel
information."""

try:
    # Convert the string dates to datetime objects
    check_in = datetime.strptime(check_in_date, "%Y-%m-%d")
    check_out = datetime.strptime(check_out_date, "%Y-%m-%d")

    # Calculate the difference in days
    days = (check_out - check_in).days

    llm_model = initialize_llm()

    analyze_agent = Agent(
        role="AI Travel Planner",
        goal="Create a detailed itinerary for the user based on flight and
        hotel information",
        backstory="AI travel expert generating a day-by-day itinerary
        including flight details, hotel stays, and must-visit locations in the
        destination.",
        llm=llm_model,
        verbose=False
    )

    analyze_task = Task(
        description=f"""

        Based on the following details, create a {days}-day itinerary for
        the user:

        **Flight Details**:
        {flights_text}

        **Hotel Details**:
        {hotels_text}

        **Destination**:
        {destination}

        **Travel Dates**:
        {check_in_date} to {check_out_date}
        ({days} days)

        The itinerary should include:
    """
)
```

- Flight arrival and departure information
- Hotel check-in and check-out details
- Day-by-day breakdown of activities
- Must-visit attractions and estimated visit times
- Restaurant recommendations for meals
- Tips for local transportation

**\*\*Format Requirements\*\*:**

```

- Use markdown formatting with clear headings (# for main
headings, ## for days, ### for sections)
    - Include emojis for different types of activities ( for landmarks,
        for restaurants, etc.)
        - Use bullet points for listing activities
        - Include estimated timings for each activity
        - Format the itinerary to be visually appealing and easy to read
        """
        agent=analyze_agent,
        expected_output="A well-structured, visually appealing itinerary
in markdown format, including flight, hotel, and day-wise breakdown
with emojis, headers, and bullet points."
    )
itinerary_planner_crew = Crew(
    agents=[analyze_agent],
    tasks=[analyze_task],
    process=ProcessSEQUENTIAL,
    verbose=False
)
crew_results = await asyncio.to_thread(itinerary_planner_crew.kickoff)
return str(crew_results)

```

## 10.API Endpoints for Flight and Hotel Search

### a) Fetch Flight Recommendation

```

@app.post("/search_flights/", response_model=AIResponse)
async def get_flight_recommendations(flight_request: FlightRequest):
    flights = await search_flights(flight_request)

```

```

flights_text = format_travel_data ("flights", flights)
ai_recommendation = await get_ai_recommendation ("flights",
flights_text)
return AIResponse (flights=flights,
ai_flight_recommendation=ai_recommendation)

```

### b) Fetch Hotel Recommendation

```

@app.post ("/search_hotels/", response_model=AIResponse)
async def get_hotel_recommendations (hotel_request: HotelRequest):
    hotels = await search_hotels(hotel_request)
    hotels_text = format_travel_data ("hotels", hotels)
    ai_recommendation = await get_ai_recommendation ("hotels",
hotels_text)
    return AIResponse (hotels=hotels,
ai_hotel_recommendation=ai_recommendation)

```

## 11. Generate AI Processed Itinerary

```

@app.post ("/generate_itinerary/", response_model=AIResponse)
async def get_itinerary (itinerary_request: ItineraryRequest):
    itinerary = await generate_itinerary (
        itinerary_request.destination,
        itinerary_request.flights,
        itinerary_request.hotels,
        itinerary_request.check_in_date,
        itinerary_request.check_out_date
    )
    return AIResponse(itinerary=itinerary)

```

```
# Run FastAPI Server
if __name__ == "__main__":
    logger.info ("Starting Travel Planning API server")
    uvicorn.run (app, host="0.0.0.0", port=8000)
```

## 12. Building a Streamlit UI for Frontend

```
import streamlit as st
import requests
from datetime import datetime, timedelta

# API URLs
API_BASE_URL = "http://localhost:8000"
API_URL_FLIGHTS = f'{API_BASE_URL}/search_flights/'
API_URL_HOTELS = f'{API_BASE_URL}/search_hotels/'
API_URL_COMPLETE = f'{API_BASE_URL}/complete_search/'
API_URL_ITINERARY = f'{API_BASE_URL}/generate_itinerary/'
```

## 13. Start the FASTAPI Backend

```
python gemini2_travel_v2.py
```

## 14. New terminal, Start the Streamlit frontend

```
python gemini2_travel_v2_frontend.py
```

## 15. Open your browser and navigate to

```
http://localhost:8501
```

## 16. Enter your travel preferences:

- Input departure and destination airports
- Set travel dates
- Select search mode (complete, flights only, or hotels only)
- Click "Search" and wait for the AI to process your request

## 17. Review the personalized results:

- Flight options with AI recommendations
- Hotel options with AI recommendations
- Day-by-day itinerary with activities and restaurant suggestions

## OUTPUT SCREENSHOTS:

The screenshot shows the AI-Powered Travel Planner application running on a local server at `localhost:8501`. The interface has a dark theme with orange highlights.

**Options**

Search Mode  
● Complete (Flights + Hotels + Itinerary)  
○ Flights Only  
○ Hotels Only

AI-Powered Travel Planner v2.1.4  
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**Flight Details**

Departure Airport (IATA): ATL  
Arrival Airport (IATA): LAX  
Departure Date: 2025/04/27  
Return Date: 2025/05/04

**Hotel Details**

Use flight destination for hotel  
Check-In Date: 2025/04/27  
Check-Out Date: 2025/05/04

**Flight Details**

Departure Airport (IATA): BOS  
Arrival Airport (IATA): LAX  
Departure Date: 2025/04/29

**Hotel Details**

Use flight destination for hotel  
Check-In Date: 2025/04/27  
Check-Out Date: 2025/05/04

**Trend Hotel LAX**  
• \$129 /night

**Comfort Inn Cockatoo Near LAX Airport**

**Studio 6 Suites Los Angeles, CA - Los Angeles - LAX**

localhost:8501

Deploy :

**AI-Powered Travel Planner**

Find flights, hotels, and get personalized AI recommendations — create your perfect itinerary in seconds.

**Flight Details**

Departure Airport (IATA): BOS

Arrival Airport (IATA): LAX

Departure Date: 2025/04/29

Return Date: 2025/05/04

Check-In Date: 2025/04/27

Check-Out Date: 2025/05/04

**Hotel Details**

Use flight destination for hotel:

**Hotels in LAX**

**Trend Hotel LAX**

• \$129/night

**Comfort Inn Cockatoo Near LAX Airport**

**Studio 6 Suites Los Angeles, CA - Los Angeles, CA**

This screenshot shows the AI-Powered Travel Planner interface. The top navigation bar includes a 'Deploy' button. The main header is 'AI-Powered Travel Planner' with a subtitle 'Find flights, hotels, and get personalized AI recommendations — create your perfect itinerary in seconds.' On the left, there's an 'Options' sidebar with 'Search Mode' settings: 'Complete (Flights + Hotels + Itinerary)' (selected), 'Flights Only', and 'Hotels Only'. Below the sidebar are copyright notices for 'AI-Powered Travel Planner v2.1.4' and '© 2025 Travel AI Solutions'. The central area is divided into 'Flight Details' and 'Hotel Details' sections. The flight details form has fields for departure and arrival airports (BOS and LAX), and dates (2025/04/29 to 2025/05/04). The hotel details section includes a checkbox for using the flight destination for hotel search. Below these are three hotel suggestions: 'Trend Hotel LAX' (with a price of \$129/night), 'Comfort Inn Cockatoo Near LAX Airport', and 'Studio 6 Suites Los Angeles, CA - Los Angeles, CA'. A date picker for the return date is also visible.

localhost:8501

Deploy :

**AI-Powered Travel Planner**

Find flights, hotels, and get personalized AI recommendations — create your perfect itinerary in seconds.

**Flight Details**

Departure Airport (IATA): BOS

Arrival Airport (IATA): LAX

Departure Date: 2025/04/29

Return Date: 2025/05/04

Check-In Date: 2025/04/27

**Hotel Details**

Use flight destination for hotel:

**Hotels in LAX**

**Trend Hotel LAX**

• \$129/night

**Comfort Inn Cockatoo Near LAX Airport**

**Studio 6 Suites Los Angeles, CA - Los Angeles, CA**

This screenshot shows the AI-Powered Travel Planner interface, similar to the one above but with a different date range. The top navigation bar includes a 'Deploy' button. The main header is 'AI-Powered Travel Planner' with a subtitle 'Find flights, hotels, and get personalized AI recommendations — create your perfect itinerary in seconds.' On the left, there's an 'Options' sidebar with 'Search Mode' settings: 'Complete (Flights + Hotels + Itinerary)' (selected), 'Flights Only', and 'Hotels Only'. Below the sidebar are copyright notices for 'AI-Powered Travel Planner v2.1.4' and '© 2025 Travel AI Solutions'. The central area is divided into 'Flight Details' and 'Hotel Details' sections. The flight details form has fields for departure and arrival airports (BOS and LAX), and dates (2025/04/29 to 2025/05/04). The hotel details section includes a checkbox for using the flight destination for hotel search. Below these are three hotel suggestions: 'Trend Hotel LAX' (with a price of \$129/night), 'Comfort Inn Cockatoo Near LAX Airport', and 'Studio 6 Suites Los Angeles, CA - Los Angeles, CA'. A date picker for the return date is also visible.

localhost:8501

Deploy :

**Options**

Search Mode

Complete (Flights + Hotels + Itinerary)

Flights Only

Hotels Only

AI-Powered Travel Planner v2.1.4

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## AI-Powered Travel Planner

Find flights, hotels, and get personalized AI recommendations — create your perfect itinerary in seconds.

**Flight Details**

Departure Airport (IATA): BOS

Arrival Airport (IATA): LAX

Departure Date: 2025/04/29

Return Date: 2025/05/04

**Hotel Details**

Use flight destination for hotel

Check-In Date: 2025/04/27

Check-Out Date: 2025/05/04

May 2025 Calendar:

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

**Hotels in LAX**

**Trend Hotel LAX**  
• \$129/night

**Comfort Inn Cockatoo Near LAX Airport**

**Studio 6 Suites Los Angeles, CA - Los Angeles, CA**

New Chrome available :

localhost:8501

RUNNING... Stop Deploy :

**Options**

Search Mode

Complete (Flights + Hotels + Itinerary)

Flights Only

Hotels Only

AI-Powered Travel Planner v2.1.4

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## AI-Powered Travel Planner

Find flights, hotels, and get personalized AI recommendations — create your perfect itinerary in seconds.

**Flight Details**

Departure Airport (IATA): BOS

Arrival Airport (IATA): LAX

Departure Date: 2025/04/27

Return Date: 2025/05/04

**Hotel Details**

Use flight destination for hotel

Check-In Date: 2025/04/27

Check-Out Date: 2025/05/04

**Search**

**Fetching travel options...**

New Chrome available :

localhost:8501

Deploy :

**Options**

Search Mode

- Complete (Flights + Hotels + Itinerary)
- Flights Only
- Hotels Only

AI-Powered Travel Planner v2.1.4

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**Flights (BOS → LAX)**

**Frontier – 1 stop(s) Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 12:48
- Arrival: Hartsfield-Jackson Atlanta International Airport (ATL) at 2025-04-27 15:47
- Duration: 707 min
- Price: \$319
- Class: Economy

**Select** **Details**

**Delta – Nonstop Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 07:15
- Arrival: Los Angeles International Airport (LAX) at 2025-04-27 10:47
- Duration: 392 min
- Price: \$479
- Class: Economy

**Select** **Details**

**American – Nonstop Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 08:05
- Arrival: Los Angeles International Airport (LAX) at 2025-04-27 11:41
- Duration: 396 min
- Price: \$479
- Class: Economy

**Select** **Details**

**JetBlue – Nonstop Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 05:30
- Arrival: Los Angeles International Airport (LAX) at 2025-04-27 09:10
- Duration: 400 min
- Price: \$494
- Class: Economy

**Select** **Details**

localhost:8501

Deploy :

**Options**

Search Mode

- Complete (Flights + Hotels + Itinerary)
- Flights Only
- Hotels Only

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**Flight saved!**

**American – Nonstop Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 08:05
- Arrival: Los Angeles International Airport (LAX) at 2025-04-27 11:41
- Duration: 396 min
- Price: \$479
- Class: Economy

**Select** **Details**

**Selected Flight**

Attribute	Value
airline	Frontier
price	319
duration	707 min
stops	1 stop(s)
departure	Boston Logan International Airport (BOS) at 2025-04-27 12:48
arrival	Hartsfield-Jackson Atlanta International Airport (ATL) at 2025-04-27 15:47
travel_class	Economy
return_date	2025-05-04

**Select**

**JetBlue – Nonstop Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 05:30
- Arrival: Los Angeles International Airport (LAX) at 2025-04-27 09:10
- Duration: 400 min
- Price: \$494
- Class: Economy

**Select** **Details**

localhost:8501

Flights (BOS → LAX)

**Frontier – 1 stop(s) Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 12:48
- Arrival: Hartsfield-Jackson Atlanta International Airport (ATL) at 2025-04-27 15:47
- Duration: 70 min
- Price: \$319
- Class: Economy

**Delta – Nonstop Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 07:15
- Arrival: Los Angeles International Airport (LAX) at 2025-04-27 10:47
- Duration: 392 min
- Price: \$479
- Class: Economy

**American – Nonstop Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 08:05
- Arrival: Los Angeles International Airport (LAX) at 2025-04-27 11:41
- Duration: 396 min
- Price: \$479
- Class: Economy

**JetBlue – Nonstop Flight**

- Departure: Boston Logan International Airport (BOS) at 2025-04-27 05:30
- Arrival: Los Angeles International Airport (LAX) at 2025-04-27 09:10
- Duration: 400 min
- Price: \$494
- Class: Economy

google.com/travel/flights?q=BOSLAX

Travel Explore Flights Hotels Vacation rentals

Boston BOS → Los Angeles LAX

Fri, May 9 Sun, May 18

All filters Stops Airlines Bags Price Times Emissions Connecting airports Duration

Best Cheapest from \$196

Top departing flights

Ranked based on price and convenience. Prices include required taxes + fees for 1 adult. Optional charges and bag fees may apply.

Passenger assistance info.

Sorted by top flights ↑

Flight Details	Duration	Nonstop	CO2e	Price	Action
6:00 AM – 9:33 AM United	6 hr 33 min	Nonstop	272 kg CO2e -36% emissions	\$196 round trip	▼
8:33 AM – 12:05 PM United	6 hr 32 min	Nonstop	272 kg CO2e -36% emissions	\$196 round trip	▼
12:52 PM – 9:35 PM Frontier	11 hr 43 min	1 stop 3 hr 13 min ATL	324 kg CO2e -23% emissions	\$196 round trip	▼
6:14 PM – 9:43 PM United	6 hr 29 min	Nonstop	272 kg CO2e -36% emissions	\$196 round trip	▼

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**Options**

Search Mode

- Complete (Flights + Hotels + Itinerary)
- Flights Only
- Hotels Only

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**Hotels in LAX**

**Trend Hotel LAX**

- 🛏 \$129 /night
- ⭐ Rating: 4.0
- 📍 N/A

**Comfort Inn Cockatoo Near LAX Airport**

- 🛏 \$144 /night
- ⭐ Rating: 4.0
- 📍 N/A

**CRESTRIDGE INN**

- 🛏 \$153 /night
- ⭐ Rating: 4.3
- 📍 N/A

**Courtyard Los Angeles LAX/Hawthorne**

- 🛏 \$156 /night
- ⭐ Rating: 4.1
- 📍 N/A

**Holiday Inn Express & Suites Los Angeles Airport Hawthorne by IHG**

- 🛏 \$172 /night
- ⭐ Rating: 4.0
- 📍 N/A

**Best Western Airpark Hotel-Los Angeles LAX Airport**

- 🛏 \$189 /night
- ⭐ Rating: 4.0
- 📍 N/A

**Studio 6 Suites Los Angeles, CA - Los Angeles - LAX**

- 🛏 \$151 /night
- ⭐ Rating: 4.6
- 📍 N/A

**TownePlace Suites Los Angeles LAX/Manhattan Beach**

- 🛏 \$167 /night
- ⭐ Rating: 4.0
- 📍 N/A

**Renaissance Los Angeles Airport Hotel**

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**Options**

Search Mode

- Complete (Flights + Hotels + Itinerary)
- Flights Only
- Hotels Only

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**Hampton Inn & Suites LAX El Segundo**

- 🛏 \$209 /night
- ⭐ Rating: 4.4
- 📍 N/A

Hotel saved!

**Hyatt Regency Los Angeles International Airport**

- 🛏 \$216 /night
- ⭐ Rating: 4.1
- 📍 N/A

**Hampton Inn Los Angeles Int'l Airport/Hawthorne**

- 🛏 \$212 /night
- ⭐ Rating: 4.1
- 📍 N/A

**Selected Hotel**

Attribute	Value
name	Hampton Inn & Suites LAX El Segundo
price	\$209
rating	4.4
location	N/A
link	<a href="https://www.hilton.com/en/hotels/laxelhx-hampton-suites-lax-el-segundo/?SEO_id=GMB-AMER-HX-LAXELHX&amp;y_source=1_MzgxMT4Nj03MTUtbg9jYXRpb24ud2ViC2lOZQ%3D%3D">https://www.hilton.com/en/hotels/laxelhx-hampton-suites-lax-el-segundo/?SEO_id=GMB-AMER-HX-LAXELHX&amp;y_source=1_MzgxMT4Nj03MTUtbg9jYXRpb24ud2ViC2lOZQ%3D%3D</a>



Language English ▾ Your Stays 📆 Join | Sign In ⌂

Home Rooms Hotel Info Offers Gallery Location Dining Events

## HAMPTON INN & SUITES LAX EL SEGUNDO

888 N. Pacific Coast Hwy, El Segundo, California, 90245, USA

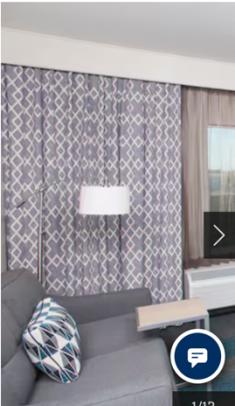
26 APR SAT

27 APR SUN

1 room, 1 guest

Special rates

Check Rooms & Rates



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Deploy ⋮

**Options**

Search Mode

Complete (Flights + Hotels + Itinerary)  
 Flights Only  
 Hotels Only

BOS Arrival Airport (ITA) Check-In Date 2025/04/27

LAX Departure Date 2025/04/27

Return Date 2025/05/04

Search

Flights Hotels AI Recs Itinerary

**AI Flight Recommendation**

\*\*Recommendation:\*\*  
I recommend \*\*Flight 2 (Delta)\*\* as the best option.

\*\*Reasoning:\*\*  
- \*\*Price:\*\* While not the cheapest, Flight 2 offers excellent value. Flight 1 is significantly cheaper, but the massive increase in travel time and added stop make the slightly higher price of Flight 2 worthwhile. Flights 3 and 4 are priced higher with minimal gain.  
- \*\*Duration:\*\* Flight 2 boasts a non-stop flight with duration of 392 minutes. This is considerably faster than Flight 1 (707 minutes). The difference in flight time between Flights 2, 3, and 4 are negligible.  
- \*\*Stops:\*\* Flight 2 is a nonstop flight, eliminating the risk of delays, missed connections, and the general hassle associated with layovers. Flight 1 involves one stop which is less convenient.  
- \*\*Travel Class:\*\* All flights are in Economy class, so there's no difference in comfort or amenities based on class.

localhost:8501

## AI Hotel Recommendation

**AI Hotel Recommendation**

Based on the analysis of price, rating, and inferred amenities, I recommend **Studio 6 Suites Los Angeles, CA - Los Angeles - LAX**.

**Reasoning for Recommendation:**

- Price:** While Trend Hotel LAX is the cheapest, Studio 6 Suites Los Angeles, CA - Los Angeles - LAX at \$151 offers a significantly higher rating (4.6) compared to the other hotels within a similar price range. The jump to the next level of highly rated hotels is a significant price increase. The extra cost is justified by the higher guest satisfaction implied by the rating, making it a superior value proposition compared to cheaper options with lower ratings.
- Rating:** Studio 6 Suites Los Angeles, CA - Los Angeles - LAX stands out with a rating of 4.6. This higher rating suggests superior guest experiences compared to many other options clustered around 4.0-4.4. Higher ratings often reflect better service, cleaner facilities, and a more comfortable overall stay. The other hotels with similar ratings such as Hampton Inn & Suites LAX El Segundo, Hampton Inn by Hilton Los Angeles Airport are much more expensive.
- Location:** Location data is not available for any of the hotels. Therefore, this factor cannot be used to differentiate the options.
- Amenities:** Given that this is a Studio 6 Suites, we can infer that it offers basic amenities suitable for extended stays, such as kitchenettes, which is a significant advantage, especially for travelers looking to save money on meals. While specifics aren't listed, typically Studio 6 offers essential amenities. Compared to other options at a similar price point that are standard hotels, the kitchenette offers a differentiating factor that improves value.

**Comparison against other options:**

- Trend Hotel LAX: While cheaper, the rating is significantly lower, suggesting a potentially compromised experience.
- Comfort Inn Cockatoo Near LAX Airport: Same rating but higher price.
- CRESTRIDGE INN: Lower rating and a higher price, making it a less attractive option.
- Courtyard Los Angeles LAX/Hawthorne: Lower rating and higher price.
- Other higher-priced hotels: While hotels like Hampton Inn by Hilton Los Angeles Airport and Hampton Inn & Suites LAX El Segundo offer competitive ratings, the price is substantial, making Studio 6 a better value, especially considering the likely presence of suite-style amenities suitable for longer stays.

**Conclusion:**

Studio 6 Suites Los Angeles, CA - Los Angeles - LAX strikes the best balance between price and rating. The high rating indicates a strong likelihood of a satisfactory stay, and the price is reasonable compared to other options.

localhost:8501

## AI-Powered Travel Planner

Find flights, hotels, and get personalized AI recommendations — create your perfect itinerary in seconds.

### Flight Details

Departure Airport (IATA): BOS

Arrival Airport (IATA): LAX

Departure Date: 2025/04/27

Return Date: 2025/05/04

### Hotel Details

Use flight destination for hotel:

Check-In Date: 2025/04/27

Check-Out Date: 2025/05/04

Search

Flights  Hotels  AI Recs  Itinerary

### Your Itinerary

```
17 Your Itinerary
```
# `markdown
# 7-Day Los Angeles Itinerary (April 27 - May 4, 2025)

## Flight & Hotel Details

**Flight:**
```

localhost:8501

**Options**

Search Mode

Complete (Flights + Hotels + Itinerary)

Flights Only

Hotels Only

AI-Powered Travel Planner v2.1.4

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\*\*Hotel:\*\*  
 • \*\*Hotel:\*\* Hampton Inn by Hilton Los Angeles Airport  
 • \*\*Price:\*\* \$191  
 • \*\*Rating:\*\* 4.4  
 • \*\*Check-in:\*\* April 27, 2025  
 • \*\*Check-out:\*\* May 4, 2025  
 • \*\*Link:\*\* [Hampton Inn by Hilton Los Angeles Airport](https://www.hilton.com/en/hotels/laxaphx-hampton-los-angeles-airport/?SEO\_id=GMB-AMER-HX-LAXAPHX&ky\_source=1\_MTAwOTYyNTE4Ny03MTUtbG9jYXRpb24ud2Vi2l0ZQ%3D%3D)

## Day 1: Arrival & Hollywood Exploration (April 27, 2025)

- 10:47 AM: Arrive at LAX.
- 11:30 AM: Take an Uber/Lyft to Hampton Inn by Hilton Los Angeles Airport. (Approx. 20 mins)
- 12:00 PM: Check-in to the hotel and leave your luggage.
- 12:30 PM: Lunch at In-N-Out Burger (a classic LA experience!). (1 hour)
- 1:30 PM: Travel to Hollywood via Metro (or Uber/Lyft). (Approx. 45 mins)
- 2:15 PM: Walk the Hollywood Walk of Fame. (1.5 hours)
- 3:45 PM: Visit TCL Chinese Theatre. (30 mins)
- 4:15 PM: Explore Dolby Theatre (home of the Oscars). (1 hour)
- 5:15 PM: Enjoy the views of the Hollywood Sign. (1 hour)
- 6:00 PM: Dinner at Musso & Frank Grill (historic Hollywood restaurant). (1.5 hours)
- 7:30 PM: Return to the hotel.
- 8:30 PM: Relax and unwind.

## Day 2: Theme Park Fun at Universal Studios (April 28, 2025)

- 8:00 AM: Breakfast at the hotel. (1 hour)
- 9:00 AM: Travel to Universal Studios Hollywood via Uber/Lyft. (Approx. 45 mins)
- 9:45 AM - 7:00 PM: Spend the day at Universal Studios Hollywood. (Explore the Wizarding World of Harry Potter, Jurassic Park, and enjoy the Studio Tour.)
- 1:00 PM: Lunch inside Universal Studios. (1 hour)
- 7:00 PM: Dinner at CityWalk (various options available). (1.5 hours)
- 8:30 PM: Return to the hotel.

## Day 3: Beach Day in Santa Monica & Venice (April 29, 2025)

## Day 3: Beach Day in Santa Monica & Venice (April 29, 2025)

- 8:00 AM: Breakfast at the hotel. (1 hour)
- 9:00 AM: Travel to Santa Monica via Uber/Lyft. (Approx. 45 mins)
- 9:45 AM: Santa Monica Pier exploration. (2 hours)
- 11:45 AM: Bike ride along the beach to Venice Beach. (1 hour)
- 12:45 PM: Lunch at a Venice Beach cafe. (1 hour)
- 1:45 PM: Explore Venice Beach Boardwalk. (2 hours)
- 3:45 PM: Visit Muscle Beach. (1 hour)
- 4:45 PM: Relax on the beach. (1 hour)
- 5:45 PM: Dinner at The Lobster in Santa Monica (seafood with ocean views). (1.5 hours)
- 7:15 PM: Return to the hotel.

## Day 4: Downtown LA & Museums (April 30, 2025)

- 8:00 AM: Breakfast at the hotel. (1 hour)
- 9:00 AM: Travel to downtown LA via Metro or Uber/Lyft. (Approx. 30-45 mins)
- 9:45 AM: Visit The Broad (contemporary art museum). (2 hours - reserve tickets in advance!)
- 11:45 AM: Walk to Walt Disney Concert Hall. (30 mins)
- 12:15 PM: Explore Grand Central Market (diverse food stalls). (1.5 hours - Lunch)
- 1:45 PM: Visit the Museum of Contemporary Art (MOCA). (2 hours)
- 3:45 PM: Explore Olvera Street (historic Mexican marketplace). (1.5 hours)
- 5:15 PM: Dinner at Perch (French restaurant with rooftop views). (1.5 hours)
- 6:45 PM: Return to the hotel.

## Day 5: Griffith Observatory & Hiking (May 1, 2025)

- 8:00 AM: Breakfast at the hotel. (1 hour)
- 9:00 AM: Travel to Griffith Observatory via Uber/Lyft. (Approx. 45 mins)
- 9:45 AM: Explore Griffith Observatory (stunning views of LA and the Hollywood sign). (2 hours)
- 11:45 AM: Hike to the Hollywood Sign (optional, allow 2-3 hours).
- 1:00 PM: Lunch (picnic or cafe near Griffith Park). (1 hour if not hiking)
- 2:00 PM: Explore Griffith Park (Los Angeles Zoo or Autry Museum of the American West). (2-3 hours)
- 5:00 PM: Dinner at a restaurant in Los Feliz. (1.5 hours)

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**Options**

Search Mode

Complete (Flights + Hotels + Itinerary)

Flights Only

Hotels Only

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## Day 6: Beverly Hills & Rodeo Drive (May 2, 2025)

- 8:00 AM: Breakfast at the hotel. ☀
- 9:00 AM: Travel to Beverly Hills via Uber/Lyt. (Approx. 30 mins)
- 9:30 AM: Explore Rodeo Drive (window shopping at luxury boutiques). 🛍 (2 hours)
- 11:30 AM: Visit Beverly Gardens Park. 🌳 (1 hour)
- 12:30 PM: Lunch at a cafe in Beverly Hills. 🍔 (1 hour)
- 1:30 PM: Take a celebrity homes tour (various tour operators available). 🏠 (2 hours)
- 3:30 PM: Visit Greystone Mansion & Gardens (historic mansion). 🏰 (2 hours)
- 5:30 PM: Dinner at Spago Beverly Hills (Wolfgang Puck's flagship restaurant - upscale). 🍴 (2 hours) or a more casual option.
- 7:30 PM: Return to the hotel.

## Day 7: Departure (May 3, 2025)

- 8:00 AM: Breakfast at the hotel. ☀
- 9:00 AM: Optional: Last-minute souvenir shopping or visit a local attraction. 🏝
- 12:00 PM: Check out of the hotel.
- 12:30 PM: Lunch near LAX. 🍔
- 1:30 PM: Travel to LAX. (Approx. 20 mins)
- Fly back home! ✈️

## Local Transportation Tips

- \*\*Metro:\*\* LA has a decent Metro system, good for getting to Downtown and Hollywood.
- \*\*Uber/Lyt:\*\* Convenient for getting around, especially when the Metro isn't an option.
- \*\*Car Rental:\*\* Consider renting a car if you plan to explore areas outside of central LA. Parking can be challenging and expensive.
- \*\*Walking:\*\* Wear comfortable shoes! You'll be doing a lot of walking.

## Restaurant Recommendations

- \*\*In-N-Out Burger:\*\* Classic California burger chain.
- \*\*Musso & Frank Grill:\*\* Historic Hollywood restaurant.
- \*\*The Lobster:\*\* Seafood restaurant in Santa Monica with ocean views.
- \*\*Grand Central Market:\*\* Diverse food stalls in Downtown LA.
- \*\*Perch:\*\* French restaurant with rooftop views in Downtown LA.

itinerary\_LAX\_2025-04-27 (1).md

```

1 | ``markdown
2 # 7-Day Los Angeles Itinerary (April 27 – May 4, 2025)
3
4 ## Flight & Hotel Details
5
6 ✈️ **Flight:**
7 * **Airline:** Delta
8 * **Price:** $479
9 * **Duration:** 392 min
10 * **Stops:** Nonstop
11 * **Departure:** Boston Logan International Airport (BOS) at 2025-04-27 07:15
12 * **Arrival:** Los Angeles International Airport (LAX) at 2025-04-27 10:47
13 * **Class:** Economy
14
15 🏨 **Hotel:**
16 * **Hotel:** Hampton Inn by Hilton Los Angeles Airport
17 * **Price:** $191
18 * **Rating:** 4.4
19 * **Check-in:** April 27, 2025
20 * **Check-out:** May 4, 2025
21 * **Link:** [Hampton Inn by Hilton Los Angeles Airport](https://www.hilton.com/en/hotels/laxaphx-hampton-los-angeles-airport/?SE0_id=GMB-AMER-HX-LAXAPHX&y_source=1_MTAwOTYyNTE4Ny03MTUtBG9jYXRpb24ud2Vic2l0ZQ%3D%3D)
22
23 ## Day 1: Arrival & Hollywood Exploration (April 27, 2025)
24
25 * 10:47 AM: Arrive at LAX.
26 * 11:30 AM: Take an Uber/Lyt to Hampton Inn by Hilton Los Angeles Airport. (Approx. 20 mins)
27 * 12:00 PM: Check-in to the hotel and leave your luggage.
28 * 12:30 PM: Lunch at In-N-Out Burger (a classic LA experience!) 🍔 (1 hour)
29 * 1:30 PM: Travel to Hollywood via Metro (or Uber/Lyt). (Approx. 45 mins)
30 * 2:15 PM: Walk the Hollywood Walk of Fame. 🎤 (1.5 hours)
31 * 3:45 PM: Visit TCL Chinese Theatre. 🎮 (30 mins)
32 * 4:15 PM: Explore Dolby Theatre (home of the Oscars). 🎮 (1 hour)
33 * 5:15 PM: Enjoy the views of the Hollywood Sign. 📸
34 * 6:00 PM: Dinner at Musso & Frank Grill (historic Hollywood restaurant). 🍴 (1.5 hours)
35 * 7:30 PM: Return to the hotel.
36 * 8:30 PM: Relax and unwind.

```

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localhost:8501

Deploy :

## AI-Powered Travel Planner

Find flights, hotels, and get personalized AI recommendations — create your perfect itinerary in seconds.

**Flight Details**

Departure Airport (IATA): BOS  
Arrival Airport (IATA): LAX  
Departure Date: 2025/04/27  
Return Date: 2025/05/04

**Hotel Details**

Use flight destination for hotel  
Check-In Date: 2025/04/27  
Check-Out Date: 2025/05/04

**Search**

**Flights (BOS → LAX)**

**Frontier – 1 stop(s) Flight**  
• Departure: Boston Logan International Airport (BOS) at 2025-04-27 12:48

**Delta – Nonstop Flight**  
• Departure: Boston Logan International Airport (BOS) at 2025-04-27 07:15

localhost:8501

Deploy :

## AI Flight Recommendation

\*\*Recommendation:\*\* Flight 2, operated by Delta.

\*\*Reasoning for Recommendation:\*\*

- \*\*Price:\*\* While not the cheapest, Flight 2 offers significantly better value than Flights 3 and 4, despite costing approximately the same as Flight 3. The \$160 difference compared to the Frontier flight is justifiable, considering the immense convenience of a nonstop flight and a substantially shorter travel time. The added cost is worth avoiding a stop and saving considerable time.
- \*\*Duration:\*\* Flight 2 has a flight duration of 392 minutes, which is the shortest among the nonstop options and drastically shorter than the Frontier flight. This difference in duration (over 5 hours saved) makes it a far more appealing choice, especially for long-distance travel. The minimal difference between Flight 2 and the other non-stop options is negligible compared to the overall benefit of a non-stop journey.
- \*\*Stops:\*\* Flight 2 is a nonstop flight. This is a major advantage over Flight 1, which has one stop. Nonstop flights minimize travel time, reduce the risk of delays and missed connections, and offer a more comfortable and convenient travel experience. Choosing a nonstop flight eliminates the stress associated with layovers and potential disruptions.
- \*\*Travel Class:\*\* All flights are in Economy class, so there is no significant difference in comfort or amenities based on travel class alone. However, Delta is generally known for providing slightly better service and a more comfortable economy experience compared to Frontier. The reliability and customer service reputation of Delta contribute to a better overall flying experience.

localhost:8501

Deploy :

## AI-Powered Travel Planner

Flight Details

Departure Airport (IATA): BOS

Arrival Airport (IATA): LAX

Departure Date: 2025/04/27

Return Date: 2025/05/04

Hotel Details

Use flight destination for hotel:

Check-In Date: 2025/04/27

Check-Out Date: 2025/05/04

Search

Hotels | AI Rec

### Hotels in LAX

- Trend Hotel LAX**  
\$129/night
- Comfort Inn Cockatoo Near LAX Airport**
- Studio 6 Suites Los Angeles, CA - Los Angeles - LAX**

localhost:8501

Deploy :

## AI Hotel Recommendation

\*\* AI Hotel Recommendation \*\*

Based on the available data, I recommend \*\*Hampton Inn & Suites LAX El Segundo\*\* and \*\*Hampton Inn by Hilton Los Angeles Airport\*\*. These hotels provide a compelling balance of price and rating, making them strong choices. The lack of specific location details for each hotel is a limitation, but I will proceed based on the available information and general knowledge.

\*\*Reasoning for Recommendation\*\*:

- \*\*Price:\*\* Both Hampton Inn & Suites LAX El Segundo at \$209 and Hampton Inn by Hilton Los Angeles Airport at \$191 offer competitive pricing. Trend Hotel LAX is the cheapest at \$129, but the Hampton Inns offer a significantly better-rated experience for a reasonable price increase.
- \*\*Rating:\*\* Hampton Inn & Suites LAX El Segundo and Hampton Inn by Hilton Los Angeles Airport both have a rating of 4.4. This is among the highest ratings in the provided list. Studio 6 Suites Los Angeles, CA - Los Angeles - LAX has a higher rating of 4.6 but it is a Suites, and the Hampton Inns generally offer a reliable and comfortable experience. This higher rating suggests better guest satisfaction compared to hotels with lower ratings. The 4.4 rating indicates a strong likelihood of a positive stay, considering factors like cleanliness, service, and overall comfort.
- \*\*Location:\*\* Unfortunately, specific location details relative to key attractions or the airport are not provided in the data. However, given the names "LAX El Segundo" and "Los Angeles Airport," it's reasonable to assume both Hampton Inns are conveniently located near Los Angeles International Airport. Without more precise location data, it's challenging to differentiate them further on this criterion. I recommend verifying the exact proximity to your desired destinations before making a final booking.
- \*\*Amenities:\*\* As part of the Hampton Inn brand, both hotels likely offer a range of valuable amenities, including free Wi-Fi, free hot breakfast, a fitness center, and comfortable rooms. These amenities cater to both business and leisure travelers, enhancing the overall value and convenience of the stay. Free breakfast, in particular, can result in significant cost savings compared to hotels where breakfast is an added expense. The presence of a fitness center allows guests to maintain their exercise routine while traveling.

\*\*Comparison against other options:\*\*

- \*\*Trend Hotel LAX:\*\* While the cheapest, its lower rating (4.0) suggests a potentially less satisfactory experience compared to the Hampton Inns. The savings may not be worth the compromise in quality and comfort.
- \*\*Studio 6 Suites Los Angeles, CA - Los Angeles - LAX:\*\* While boasting a higher rating (4.6), it's a suite-style accommodation. Depending on traveler needs, it might prioritize space over service, which may make the Hampton Inn a more balanced option.
- \*\*Comfort Inn Cockatoo Near LAX Airport:\*\* Priced at \$144 with a 4.0 rating, it doesn't offer the same value proposition as the Hampton Inns, which offer a slightly higher price, but improved amenities.
- \*\*More expensive options (e.g., Renaissance, Marriott, Hyatt Regency):\*\* While these hotels may offer more luxurious amenities, the price premium might not be justified, especially for a comfortable and convenient stay near the airport. The Hampton Inns provide a strong balance of quality and affordability.

## POTENTIAL ISSUES FACED:

### 1. Data Privacy and Security

- Handling user data (travel preferences, personal info) exposes you to privacy risks and potential data breaches.
- Integrating with third-party APIs (flights, hotels) may further complicate compliance and security.

## **2. Inaccurate or Outdated Recommendations**

- AI may give out-of-date, incomplete, or even hallucinated information (e.g., closed attractions, wrong prices).
- Real-time changes (like flight delays, hotel overbookings, sudden closures) may not be reflected immediately.

## **3. Lack of Personalization**

- AI may not fully capture nuanced traveler preferences, leading to generic suggestions or missing “hidden gems”.
- Recommendations may be biased toward popular options, ignoring user-specific needs or diversity.

## **4. Technical Errors and Reliability**

- API failures, backend downtime, or network issues can break the user experience.
- Bugs in form validation or session state management can lead to unexpected errors or lost data.

## **5. Scalability and Performance**

- As user numbers grow, backend and API calls (especially to third parties) may slow down or fail without robust scaling.
- Handling large datasets (e.g., many hotels/flights) can slow down the interface.

## **6. Cold Start and Limited Context**

- New users (or users in incognito mode) may get poor recommendations due to lack of history/context.
- Session-based recommendations may not be enough for complex, multi-trip planning.

## **7. Over-reliance on Automation**

- Users may miss the human touch, especially for complex or high-value trips where empathy and negotiation matter.
- AI may not handle exceptions or special requests as well as a human agent.

## **8. Regulatory and Ethical Risks**

- Use of AI in travel is increasingly regulated (GDPR, CCPA, etc.)<sup>411</sup>.
- Risk of algorithmic bias or lack of transparency in how recommendations are generated.

## **CHANGES AND IMPROVEMENTS TO CONSIDER:**

### **A. Enhance Data Quality and Real-Time Integration**

- Integrate more real-time data feeds for flights, hotels, weather, and events to reduce outdated information.
- Add mechanisms to verify AI suggestions against live data before showing to users.

### **B. Improve Personalization**

- Implement deeper user profiling (preferences, past trips, accessibility needs).
- Offer users the chance to provide feedback on recommendations to refine future results.

### **C. Human-in-the-Loop Features**

- Provide an option for users to chat with a human agent for complex or custom requests.
- Allow manual overrides or adjustments to AI-generated itineraries.

### **D. Robust Error Handling and User Guidance**

- Improve error messages and fallback options when APIs fail, or data is missing.
- Save progress locally (e.g., in browser storage) to prevent data loss on errors.

### **E. Strengthen Security and Compliance**

- Encrypt sensitive user data and audit API integrations for security flaws.
- Make privacy policies transparent and allow users to control their data.

### **F. Scalability and Performance Tuning**

- Use caching for popular queries and optimize backend for concurrent requests.

- Consider asynchronous calls and background job processing for slow API endpoints.

## **G. Transparency and Trust**

- Disclose when recommendations are AI-generated and their confidence level.
- Show sources for recommendations (e.g., “based on reviews from X, Y, Z”).

## **H. Broaden Recommendation Techniques**

- Combine collaborative, content-based, and context-aware recommendation models for richer suggestions.
- Use session-based, location-based, and knowledge-based approaches for different user scenarios.

## **I. Accessibility and Inclusivity**

- Ensure the UI is accessible (screen reader support, color contrast, etc.).
- Allow users to specify accessibility needs (e.g., step-free hotels, dietary requirements)

## **CONCLUSION:**

The above document demonstrates how Multi-Agent AI, Google Gemini LLM, and structured prompt engineering with AI Tasks enable seamless orchestration of intelligent automation. By harnessing real-time data, parallel AI execution, and LLM-powered recommendations, organizations can automate complex decision-making tasks across diverse domains such as finance, healthcare, logistics, and customer support.

In conclusion, the integration of advanced multi-agent AI systems and large language models not only streamlines operations but also unlocks new levels of efficiency and insight. As these technologies continue to evolve, they will empower businesses to deliver smarter, faster, and more personalized solutions—driving innovation and transforming the future of intelligent automation.

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