
IBM HACKATHON PROJECT

TRAVEL PLANNER AGENT

Presented By: YASHVITHA K N
College Name & Department : INTERNATIONAL SCHOOL OF
MANAGEMENT EXCELLENCE - MCA

OUTLINE

- Problem Statement
- Technology used
- IBM Cloud services used
- Wow factor
- End users
- API Reference After Deployment
- Deployment & Preview
- Results
- Conclusion
- Git-hub Link
- Future scope
- IBM Certifications

PROBLEM STATEMENT

Design and build an AI-driven Travel Planner Agent that:

- Creates travel plans tailored to user preferences.
- Recommends destinations and generates customized itineraries.
- Suggests transportation and lodging options.
- Integrates real-time data such as weather, maps, and local events.
- Handles bookings and provides timely alerts.
- Dynamically adjusts schedules for optimal planning.

TECHNOLOGY USED

- IBM cloud lite services
- Natural Language Processing (NLP)
- Large Language models (LLM)
- IBM Granite model
- IBM App Connect

IBM CLOUD SERVICES USED

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI runtime
- IBM Cloud Functions
- IBM Cloud service
- IBM Granite (via watsonx.ai studio)
- IBM Cloud Object Storage
- IBM AI Tools

WOW FACTORS

The Travel Planner Agent provides powerful capabilities, including real-time itinerary adjustments in response to weather changes and travel disruptions, ensuring a hassle-free travel experience. Leveraging the advanced AI of IBM Granite, it accurately interprets user inputs to deliver deeply personalized travel plans. The agent intelligently suggests destinations and routes aligned with individual preferences, budgets, and constraints. Its seamless integration with IBM Cloud services creates a smooth, conversational interface that transforms complex travel planning into a simple, user-friendly process.

Key features:

- Dynamic itinerary updates based on live weather conditions and travel status.
- Personalized recommendations through natural language understanding powered by IBM Granite.
- Customized destination and activity suggestions based on user interests, budget, and trip length.
- Integrated access to maps, weather, and booking data for unified planning.
- Efficient serverless backend powered by IBM Cloud Functions.
- Conversational, chat-based interaction enabled by Watson Assistant.

END USERS

- Solo travelers.
- Travel content creators and influencers.
- Travel companies providing personalized itineraries.
- Corporate professionals organizing multi-destination journeys.
- Scholars or researchers traveling for academic purposes.

API REFERENCE AFTER DEPLOYMENT

IBM watsonx

Upgrade

Yashvith KN's Account ▾ Dallas ▾ YK

Deployment spaces / Travel_Planner_Agent / watsonx Agent /

watsonx Agent Deployed Online

API referenceTestPreview

Endpoints for inferencing

Private endpoint

`https://us-south.ml.cloud.ibm.com/ml/v4/deployments/67f028fa-eb73-485c-b14d-09b11a50e...`

`https://us-south.ml.cloud.ibm.com/ml/v4/deployments/67f028fa-eb73-485c-b14d-09b11a50e...`

Public endpoint

`https://us-south.ml.cloud.ibm.com/ml/v4/deployments/67f028fa-eb73-485c-b14d-09b11a50e...`

`https://us-south.ml.cloud.ibm.com/ml/v4/deployments/67f028fa-eb73-485c-b14d-09b11a50e...`

[Learn more](#) about the 2021-05-01 version query parameter

Bearer <token>

IAM

About this deployment

Name

watsonx Agent

Description

Change this description to reflect your particular agent

Deployment Details

Deployment ID: 67f028fa-eb73-48...

Serving name:

No serving name.

Software specification:

runtime-24.1-py3.11

Hardware specification:

Extra extra small: 1 CPU and 2 GB RAM

Copies:

1

Tags

Activate Windows
Go to Settings to activate Windows.

wx-agent

DEPLOYMENT & PREVIEW

IBM watsonx

Upgrade ?

Yashvith KN's Account

Dallas


YK

Deployment spaces / Travel_Planner_Agent / watsonx Agent /

watsonx Agent ✓ Deployed Online


API reference Test Preview


New chat +

 Travel_Planner_Agent 09:29 PM

Welcome to Travel_Planner_Agent

Change this description to reflect your particular agent



Type something... 

About this deployment

Name
watsonx Agent

Description
Change this description to reflect your particular agent

Deployment Details
Deployment ID: 67f028fa-eb73-48...
Serving name:
No serving name.
Software specification:
runtime-24.1-py3.11
Hardware specification:
Extra extra small: 1 CPU and 2 GB RAM
Copies:
1

Tags
wx-agent

RESULTS

IBM watsonx

Upgrade ?

Yashvith KN's Account

Dallas

YK

Projects / Travel Planner / Agent Lab

Share feedback

Unsaved

New agent +

Deploy

Build

AI Model: mistral-large

Knowledge

Tools

Add a tool

Create custom tool

Added tools (4)

Google search

Retrieve information from the internet with the Google search engine.

DuckDuckGo search

Retrieve information from the internet with the DuckDuckGo search engine.

Wikipedia search

Retrieve information from Wikipedia articles.

Agent preview

Travel Agent 08:28 PM

Welcome to Travel Agent

I'm your AI travel buddy-plan trips, book stays, suggest spots, all tailored just for you.



Type something...

Activate Windows

Go to Settings to activate Windows.

RESULTS

IBM watsonx

Upgrade ? Bell

Yashvith KN's Account Dallas YK

Projects / Travel Planner / Agent Lab

Share feedback Unsaved New agent + Deploy

Build

AI Model: mistral-large

LangGraph ReAct

Instructions

I'm your Travel Planner AI Agent, designed to make you travel planning smart, easy and personalized, Whether you're dreaming of a quick weekend escape or a long international adventure, I'm here to guide you through every step.

Discover destinations based on your interests, season, and budget

Knowledge

Tools

Add a tool Create custom tool

Agent preview

You: 08:27 PM

give me 5 days trip plan from goa to chennai

Travel Agent 08:27 PM

Here are some search results for "5 days trip plan from goa to chennai":

1. [What will be a good plan/route along with nice stops/sight seeing for ...](#)

Description: Nov 29, 2023 ... A good plan/route along with nice stops/sight seeing for Chennai to Goa 6 days round trip by own car? I am new to long distance driving, traveling with wife ...

2. [\\$41 Cheap flights from Goa to Chennai \(GOI to MAA\) - Expedia](#)

Description: Prices were available within the past 7 days and start at \$41 for one-way flights and \$83 for round trip, for the period specified. Prices and availability are ...

Type something... Activate Windows Go to Settings to activate Windows.

RESULTS

IBM watsonx

Upgrade ?

Yashvith KN's Account

Dallas

YK

Projects / Travel Planner / Agent Lab

Share feedback

Unsaved

New agent +

Deploy

Build

AI Model: mistral-large

LangGraph

ReAct

Instructions

I'm your Travel Planner AI Agent, designed to make you travel planning smart, easy and personalized, Whether you're dreaming of a quick weekend escape or a long international adventure, I'm here to guide you through every step.

Discover destinations based on your interests, season, and budget

Knowledge

Tools

Add a tool

Create custom tool

Agent preview

9. [AI Trip Planner | BuildAI.space](#)

Description: Plan your dream trip with personalized itineraries. Travel days. Travel days. Destination. Travel style. Travel style. Run. Recently Created Trip Plans.

10. [Goa Tour Packages From Chennai](#)

Description: Goa Tour Packages From Chennai ; 1. Fort Aguada · Seventeenth-century Portuguese fort · Museum of Christian Art, Basilica of Bom Jesus · 9am–6pm ; 2. Basilica of Bom ...

► How did I get this answer?

Type something...

CONCLUSION

- The Travel Planner Agent simplifies the complexities involved in trip planning.
- Utilizing IBM Cloud AI services, it provides real-time, personalized, and adaptive travel solutions, enabling users to experience a seamlessly organized journey.
- This demonstrates a practical use of AI in addressing real-world logistical challenges while maintaining a user-friendly and efficient experience.

GITHUB LINK

- <https://github.com/YashvithaKN/TRAVEL-PLANNER-AGENT-IBM-PROJECT.git>

FUTURE SCOPE

- Links to booking platforms (such as Skyscanner and Airbnb)
- AR-powered virtual destination tours
- Integration with voice assistants (e.g., Alexa, Siri)
- Location-based emergency assistance and alerts
- AI-driven budget optimizer to maximize experiences within a user's budget
- Community features offering peer recommendations
- Watson Language Translator–enabled multilingual support
- Offline access for areas with limited connectivity

IBM CERTIFICATIONS



IBM CERTIFICATIONS



IBM LAB CERTIFICATE

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to
Yashvitha KN

for the completion of

**Lab: Retrieval Augmented Generation with
LangChain**

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 25 Jul 2025 (GMT)

Learning hours: 20 mins



THANK YOU