
IBM HACKATHON PROJECT

TRAVEL PLANNER AGENT

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OUTLINE

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PROBLEM STATEMENT

A Travel Planner Agent is an AI-powered assistant that helps users plan trips efficiently and intelligently. It uses real-time data to suggest destinations, build itineraries, and recommend transport and accommodation options. By understanding user preferences, budgets, and constraints, it tailors personalized travel plans. Integrated with maps, weather updates, and local guides, it ensures a smooth travel experience. The agent can also manage bookings, alert users to changes, and optimize schedules on the go. This smart assistant transforms complex travel planning into a seamless, enjoyable process.

TECHNOLOGY USED

- IBM cloud lite services
- Retrieval Augmented Generation (RAG)
- IBM Granite model

IBM CLOUD SERVICES USED

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model

WOW FACTORS

- Personalized Itinerary in Seconds
- AI-Powered Travel Assistant
- Smart Weather Awareness
- Zero Manual Planning
- Beginner-Friendly & Interactive

END USERS

- Tourists & Solo Travelers
- Families Planning Vacations
- Travel Agencies
- Travel Bloggers & Influencers
- College Students & Backpackers

RESULTS

cloud.ibm.com/login - Search | Agent Lab (beta) — Docs | IBM w... | Agent Lab — Travel_Agent | IBM v... | +

https://datapatform.cloud.ibm.com/wx/agents?context=wx&project_id=f150c7de-b575-459a-ad40-4b7fba1280d6

Sign in

IBM watsonx Upgrade ? Unsaved New agent + Deploy

Projects / Travel_Agent / Agent Lab

Build AI Model: granite-3-3-8b-instruct

Knowledge

Vector index

travel_dataset

A vector index searches documents for relevant information to ground the model. Upload the files to index or select an existing index.

Tools

Add a tool Create custom tool

Added tools (2)

Google search

Retrieve information from the internet with the Google search engine.

Document search - travel_dataset

Search documents with vector indexes.

Model parameters

Frequency penalty -2 2 0

Presence penalty -2 2 0

Temperature 0 2 0

Top P (nucleus sampling) 0.01 1 1

Max tokens 2000

Random seed

Agent preview

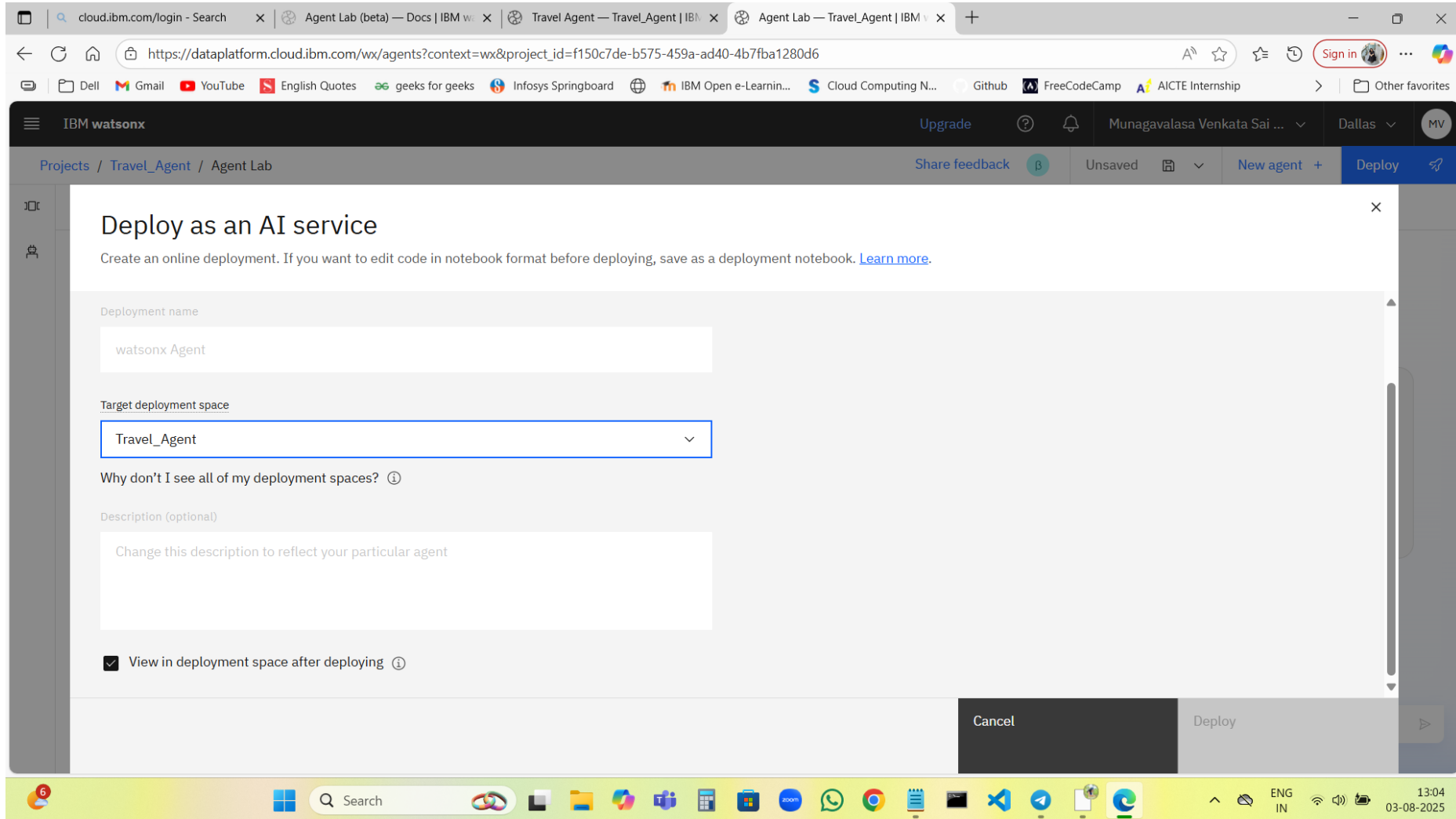
Travel Agent 12:45 PM

Welcome to Travel Agent

Change this description to reflect your particular agent

Type something...

RESULTS



RESULTS

[cloud.ibm.com/login](#) - Search | [Agent Lab \(beta\)](#) — Docs | IBM w... X | [Travel Agent](#) — Travel_Agent | IB... X | [watsonx Agent](#) — Travel_Agent | I... X | [Settings](#) | IBM watsonx X +

← → ↺ 📁 https://datapatform.cloud.ibm.com/ml-runtime/deployments/57405d73-7ce1-4df4-89c9-48719b949764/implementation?space_id=2667d898-5774-4e4c-a82c-62f513027... ⋮ ☆ ↻ 🔍 Sign in ... 🌐

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☰ IBM watsonx Upgrade ? 🔔 Munagavalasa Venkata Sai ... ▾ Dallas ▾ MV

[Deployment spaces](#) / [Travel_Agent](#) / [watsonx Agent](#) / 🗑 ⓘ 🔄 💬 ⚙

watsonx Agent ✔ Deployed Online

API reference

Test

Preview

Endpoints for inferencing ⓘ

Private endpoint

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/57405d73-7ce1-4df4-89c9-48719b949764/ai_service?version=2021-05-01 📄

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/57405d73-7ce1-4df4-89c9-48719b949764/ai_service_stream?version=2021-05-01 📄

Bearer <token> ⓘ

IAM

Public endpoint

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/57405d73-7ce1-4df4-89c9-48719b949764/ai_service?version=2021-05-01 📄

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/57405d73-7ce1-4df4-89c9-48719b949764/ai_service_stream?version=2021-05-01 📄

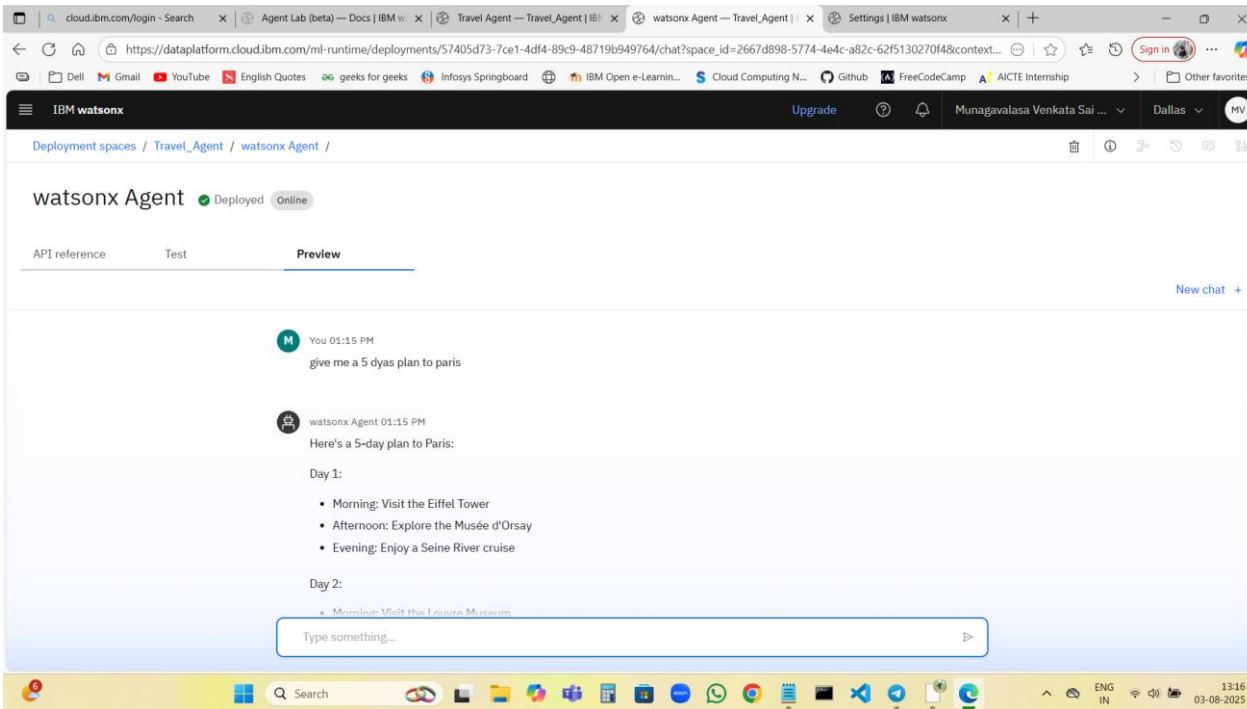
[Learn more](#) about the 2021-05-01 version query parameter

Code snippets

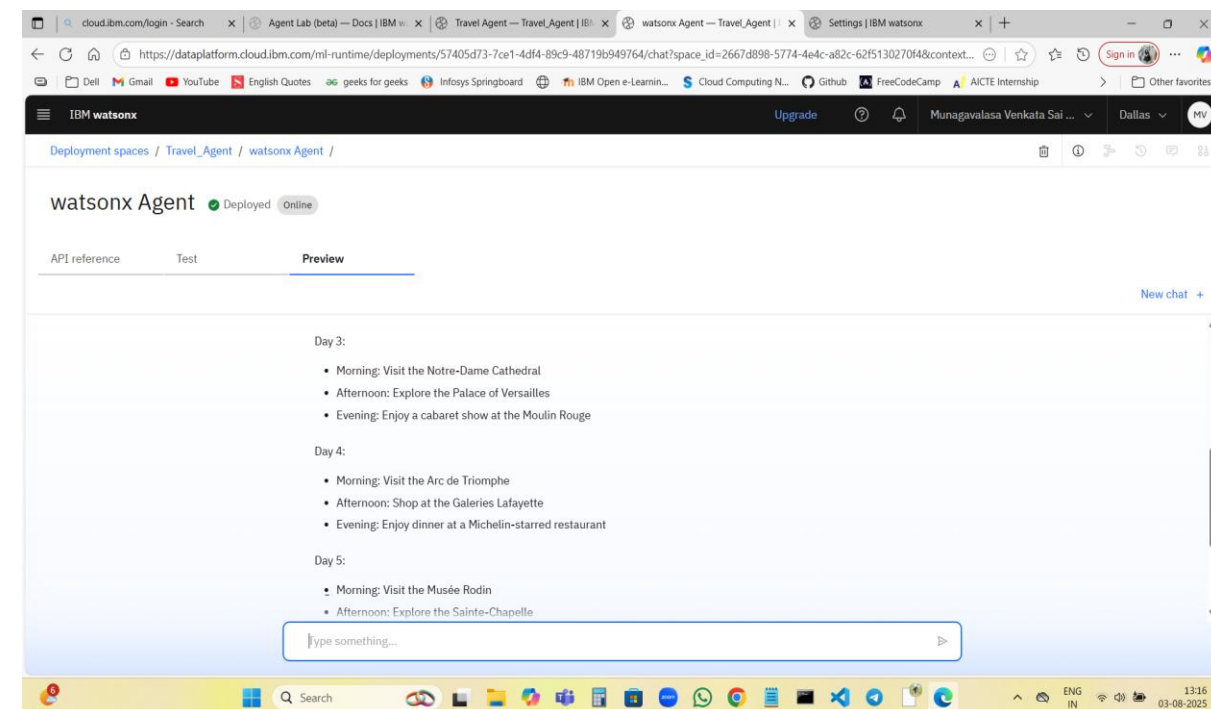
cURL Java JavaScript Python Scala

RESULTS

Deployed AI Agent



The screenshot shows the IBM watsonx Agent interface in a web browser. The browser tabs include "cloud.ibm.com/login", "Agent Lab (beta)", "Docs | IBM w...", "Travel Agent — Travel_Agent | IB...", "watsonx Agent — Travel_Agent | X", and "Settings | IBM watsonx". The URL bar shows a long URL for a deployment. The interface has a dark header with "IBM watsonx" and a user profile "Munagavalasa Venkata Sai ...". Below the header, the breadcrumb "Deployment spaces / Travel_Agent / watsonx Agent /" is visible. The main section is titled "watsonx Agent" with a green "Deployed" status and an "Online" indicator. There are three tabs: "API reference", "Test", and "Preview", with "Preview" being the active tab. A "New chat +" button is on the right. The chat history shows a user message: "You 01:15 PM give me a 5 dias plan to paris". The agent's response is: "watsonx Agent 01:15 PM Here's a 5-day plan to Paris: Day 1: • Morning: Visit the Eiffel Tower • Afternoon: Explore the Musée d'Orsay • Evening: Enjoy a Seine River cruise Day 2: • Morning: Visit the Louvre Museum". A text input field at the bottom contains "Type something...". The Windows taskbar at the bottom shows the time as 13:16 on 03-08-2025.



This screenshot shows the continuation of the chat conversation in the IBM watsonx Agent interface. The user's previous message is visible. The agent's response continues the plan: "Day 3: • Morning: Visit the Notre-Dame Cathedral • Afternoon: Explore the Palace of Versailles • Evening: Enjoy a cabaret show at the Moulin Rouge Day 4: • Morning: Visit the Arc de Triomphe • Afternoon: Shop at the Galeries Lafayette • Evening: Enjoy dinner at a Michelin-starred restaurant Day 5: • Morning: Visit the Musée Rodin • Afternoon: Explore the Sainte-Chapelle". The text input field at the bottom is empty and contains the placeholder "Type something...". The Windows taskbar at the bottom shows the time as 13:16 on 03-08-2025.

CONCLUSION

- The **Travel Planner Agent** project demonstrates how AI can be used to make travel planning easier, faster, and more personalized. By taking basic input like destination, duration, budget, and interests, the system generates a smart day-by-day travel itinerary using AI.
- This project helped me learn how to combine user input, datasets, and AI (like OpenAI or IBM Granite) to solve a real-world problem. It also shows how such tools can be expanded further by adding real-time data like weather, hotel booking, and maps.
- Overall, this was a fun and useful project that introduced me to the power of AI in the travel domain and gave me hands-on experience with practical technologies like Python, and cloud APIs.

FUTURE SCOPE

- Real-Time API Integration
- IBM Granite Integration
- Multilingual Support
- Sustainable Travel Suggestions
- Climate Smart Travel Tips

IBM CERTIFICATIONS

In recognition of the commitment to achieve
professional excellence



Munagavalasa Venkata Sai Keerthika

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 22, 2025
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IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Munagavalsa Venkata Sai Keerthika

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



Git hub link : <http://github.com/keerthika-2005-del/Watsonx-Travel-Agent/tree/main>

GITHUB LINK

<https://github.com/keerthika-2005-del/Watsonx-Travel-Agent/blob/main/README.md>



THANK YOU