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# **IBM INTERSHIP PROJECT**

## **TRAVEL PLANNER AGENT**

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**ENGINEERING AND TECHNOLOGY – DEPT OF CSE**

# OUTLINE

- Problem Statement
- Technology used
- Wow factor
- End users
- Result
- Conclusion
- Git-hub Link
- Future scope
- IBM Certifications

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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.

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# TECHNOLOGY USED

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

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## IBM CLOUD SERVICES USED

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

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# WOW FACTORS

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

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## 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

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IBM watsonx Upgrade ? Unsaved New agent + Deploy

Munagavalasa Venkata Sai ... Dallas MV

Projects / Travel\_Agent / Agent Lab

Share feedback β

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

The screenshot shows a web browser window with multiple tabs. The active tab is 'Agent Lab — Travel\_Agent | IBM'. The address bar shows the URL: [https://dataplatfrom.cloud.ibm.com/wx/agents?context=wx&project\\_id=f150c7de-b575-459a-ad40-4b7fba1280d6](https://dataplatfrom.cloud.ibm.com/wx/agents?context=wx&project_id=f150c7de-b575-459a-ad40-4b7fba1280d6). The browser's address bar and the page's top navigation bar both show a 'Sign in' button. The page's top navigation bar also includes 'Upgrade', a help icon, a notification bell, the user's name 'Munagavalasa Venkata Sai ...', the location 'Dallas', and a profile icon 'MV'. The main content area is titled 'Deploy as an AI service' and includes a sub-header 'Create an online deployment. If you want to edit code in notebook format before deploying, save as a deployment notebook. [Learn more.](#)'. The form contains the following fields and controls:

- Deployment name:** A text input field containing 'watsonx Agent'.
- Target deployment space:** A dropdown menu with 'Travel\_Agent' selected.
- Why don't I see all of my deployment spaces?** A link with an information icon.
- Description (optional):** A text area with the placeholder text 'Change this description to reflect your particular agent'.
- View in deployment space after deploying:** A checkbox that is checked.
- Buttons:** 'Cancel' and 'Deploy' buttons at the bottom right.

The Windows taskbar at the bottom shows the time as 13:04 on 03-08-2025, along with various system icons and application icons.

## 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

+

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🔒 https://datapatform.cloud.ibm.com/ml-runtime/deployments/57405d73-7ce1-4df4-89c9-48719b949764/implementation?space\_id=2667d898-5774-4e4c-a82c-62f513027...

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☆

★

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Sign in

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🌐

🖨️

📁 Dell

✉️ Gmail

📺 YouTube

🗣️ English Quotes

🔗 geeks for geeks

🌐 Infosys Springboard

🌐 IBM Open e-Learnin...

💻 Cloud Computing N...

👤 Github

🚀 FreeCodeCamp

🎓 AICTE Internship

>

📁 Other favorites

☰ 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 🔗

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

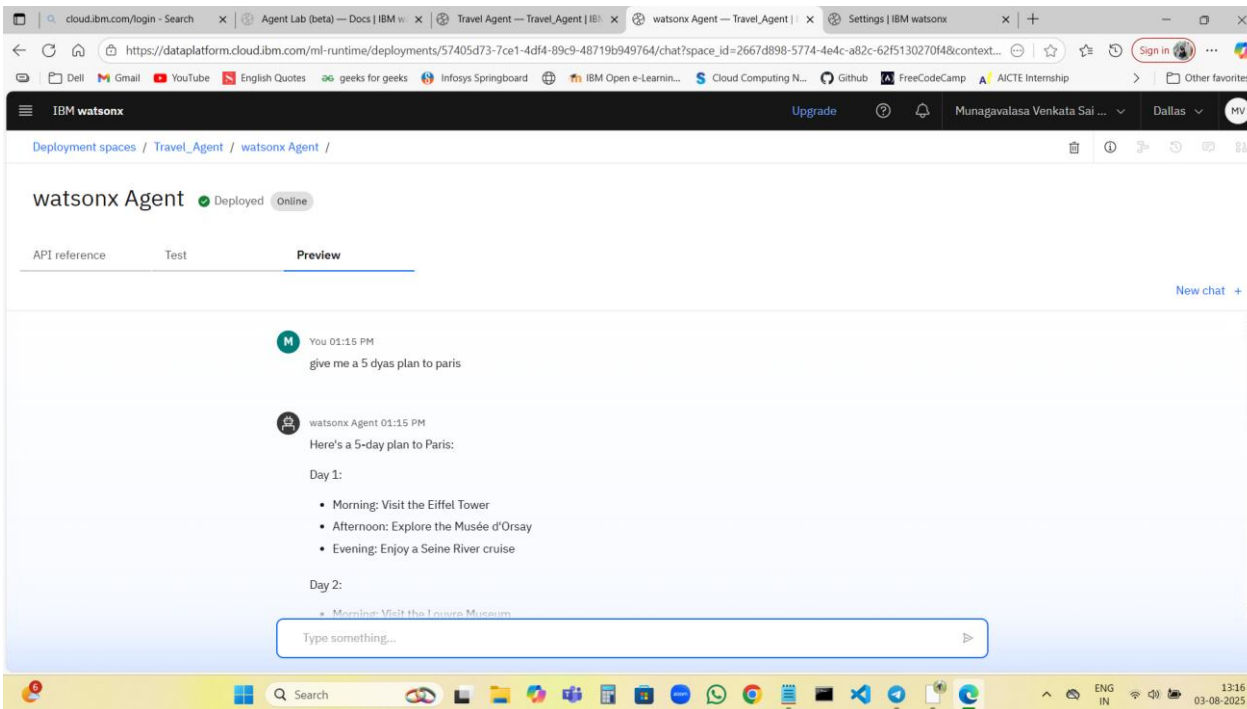
JavaScript

Python

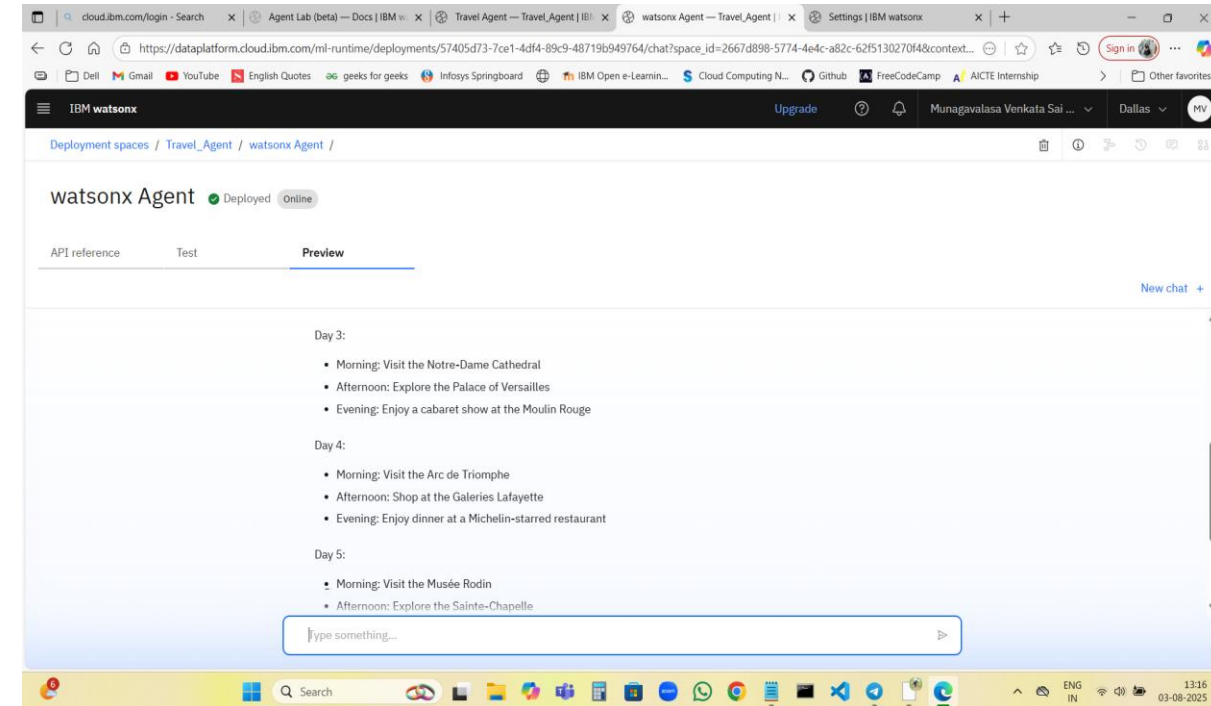
Scala

# 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 content area shows "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.

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# 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  
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/11cf4361-f8dc-480d-be6c-1af1f1d8f276>



In recognition of the commitment to achieve professional excellence



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Journey to Cloud: Envisioning Your Solution



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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>



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## GITHUB LINK

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



**THANK YOU**