CAPSTONE PROJECT

TRAVEL PLANNER AGENT

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OUTLINE

- Problem Statement
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- Future scope
- IBM Certifications



PROBLEM STATEMENT

A Travel Planner Agent is an Al-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 Al Studio
- IBM Cloud Watsonx Al runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model



WOW FACTORS

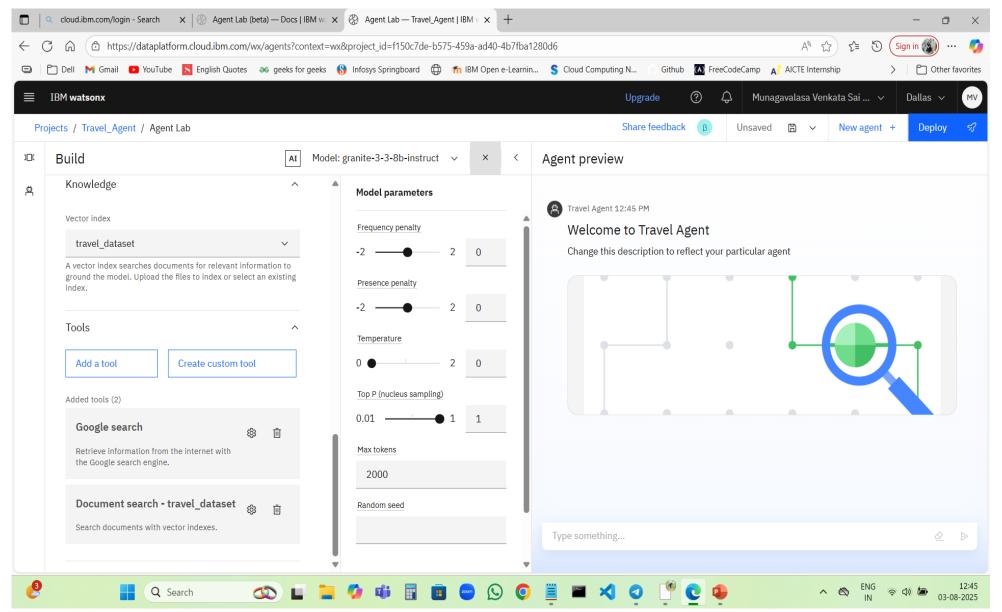
- Personalized Itinerary in Seconds
- Al-Powered Travel Assistant
- Smart Weather Awareness
- Zero Manual Planning
- Beginner-Friendly & Interactive



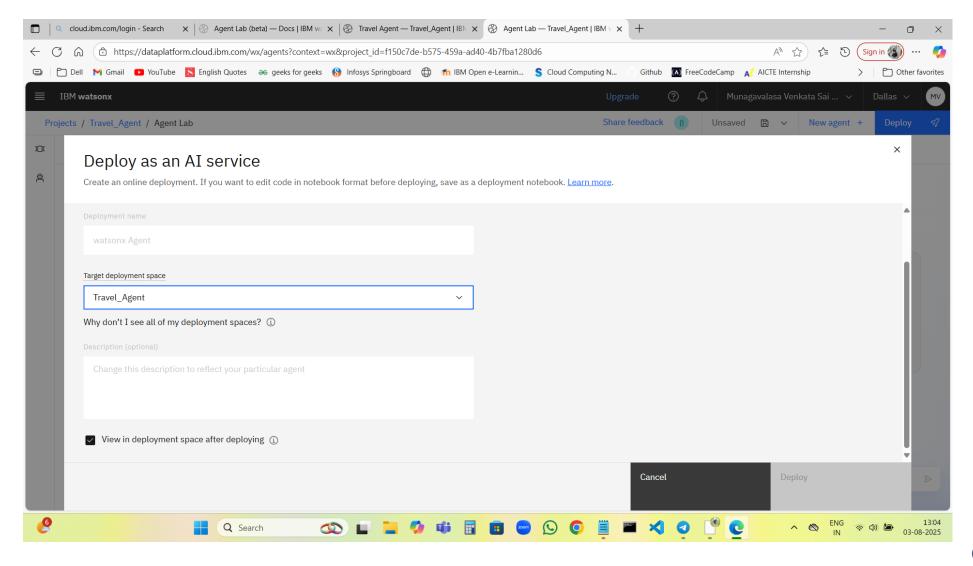
END USERS

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

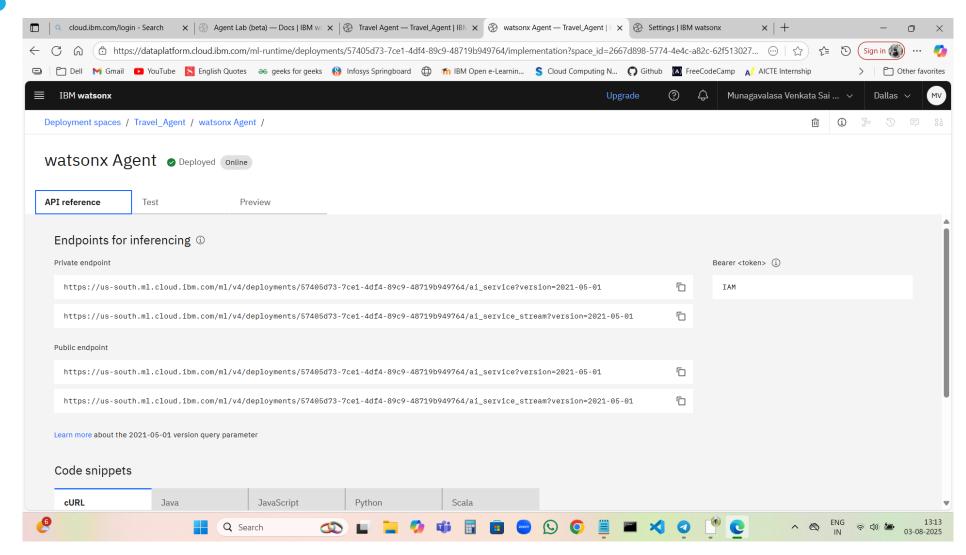






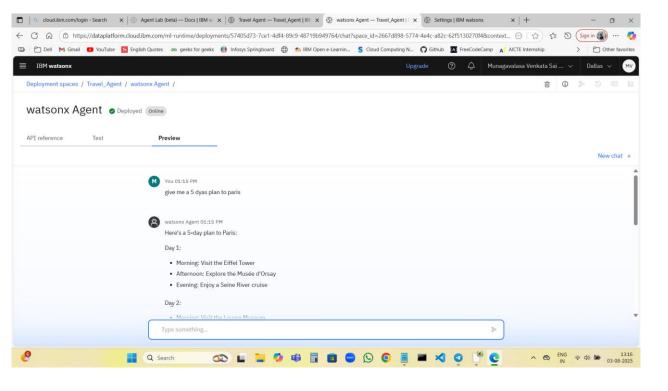


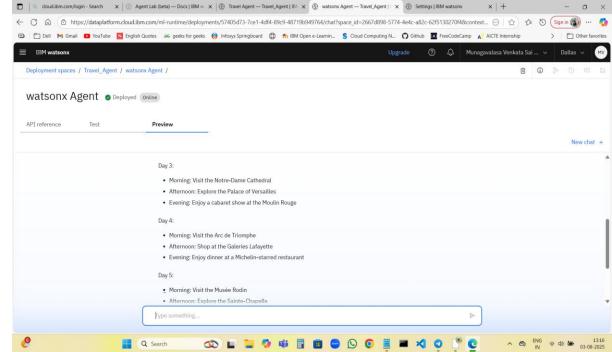






Deployed AI Agent







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 Al (like OpenAl 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:

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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 lik: 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

