IBM AICTE PROJECT

AI Travel Planning agent

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Problem Statement

The Challenge –

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

Proposed solution-

The proposed solution is to develop an AI-powered virtual assistant using IBM Watsonx that helps users with travel-related queries. This assistant can suggest the best hotels, popular destinations, and basic travel information based on user input.

Technology used

IBM cloud lite services

Natural Language Processing (NLP)

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

Instant Itinerary Magic

- Just type your dream destination and preferences, and the AI builds a full itinerary in seconds.
- Includes flights, hotels, local experiences—even quirky food spots you'd never find on your own.

Multi-Agent Coordination

Behind the scenes, multiple AI agents collaborate to build your perfect trip.

You can even watch them work in a live dialog box—like a digital travel war room.

Automated Day-by-Day Itineraries

You enter your destination, number of days, and preferences.

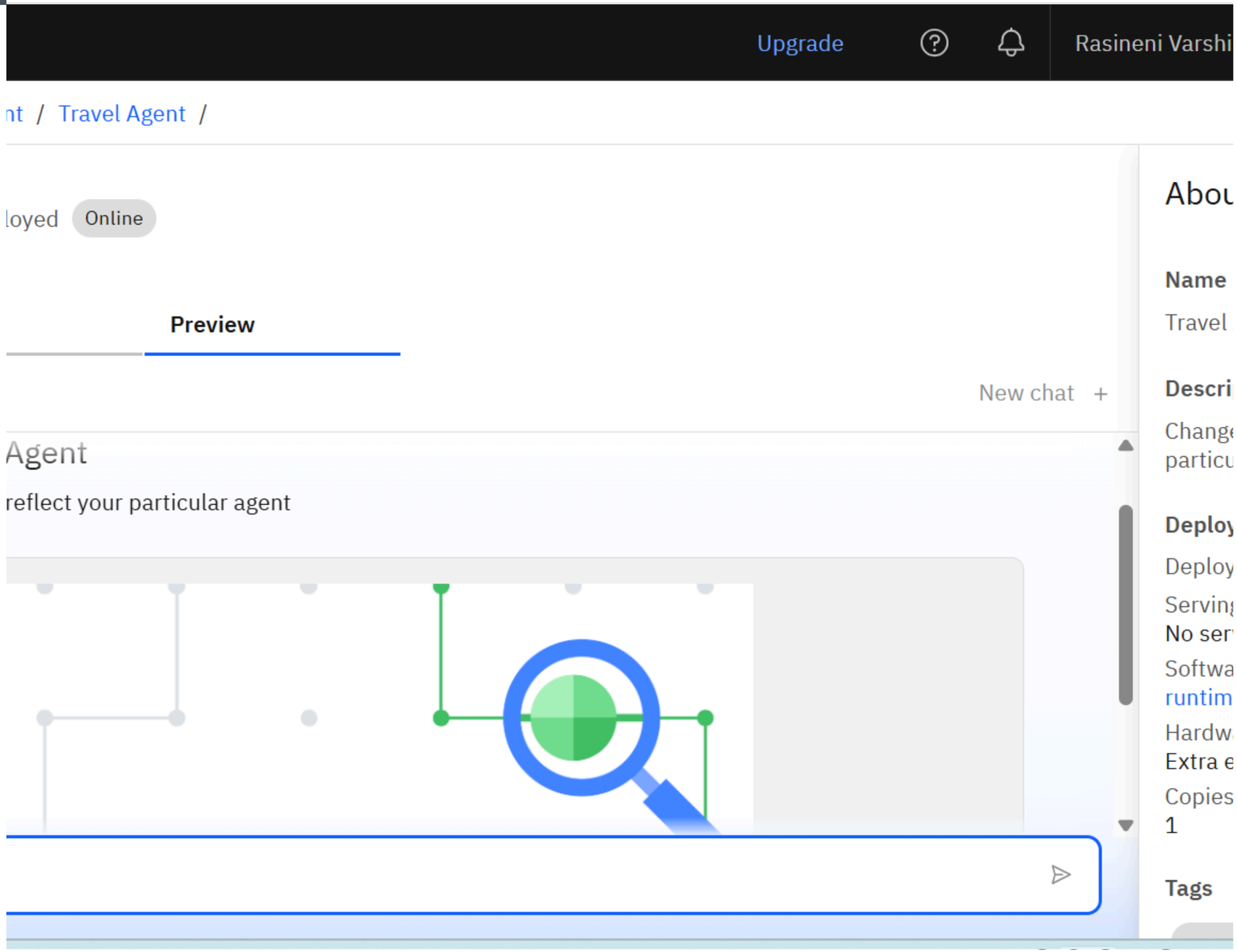
The AI instantly generates a **detailed schedule** for each day: morning, afternoon, evening.

End users

- Individual Travelers
- Travel Industry Professionals
- Travel Industry Professionals
- Developers and Researchers
- Government and Tourism Boards

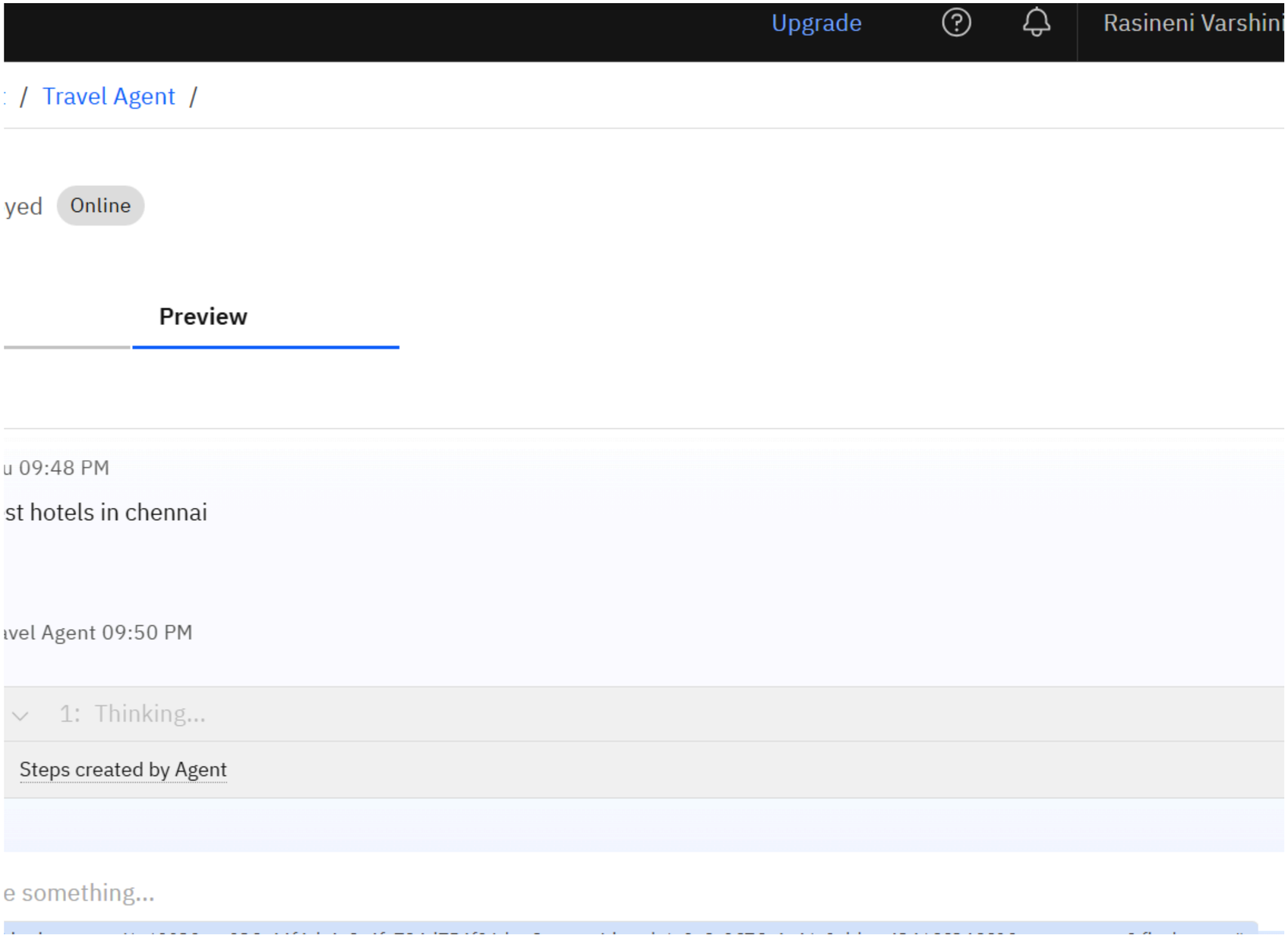
Results

The Travel Agent is a virtual assistant project created and deployed on the IBM Wat sonx platform. It is designed to handle travel-related queries such as booking tickets, suggesting travel destinations, and assisting users with travel plans. The assistant is currently in an active state — deployed and online, which means it is ready for interaction either through the test interface or integration via APIs.



Results

This response suggests that the assistant has been configured to recognize travel-related intents (like finding hotels) and is capable of executing a defined response or a set of steps related to the user's input. While the reply in the screenshot is generic, it shows that the assistant is functioning and mapping user queries to predefined agent flows.



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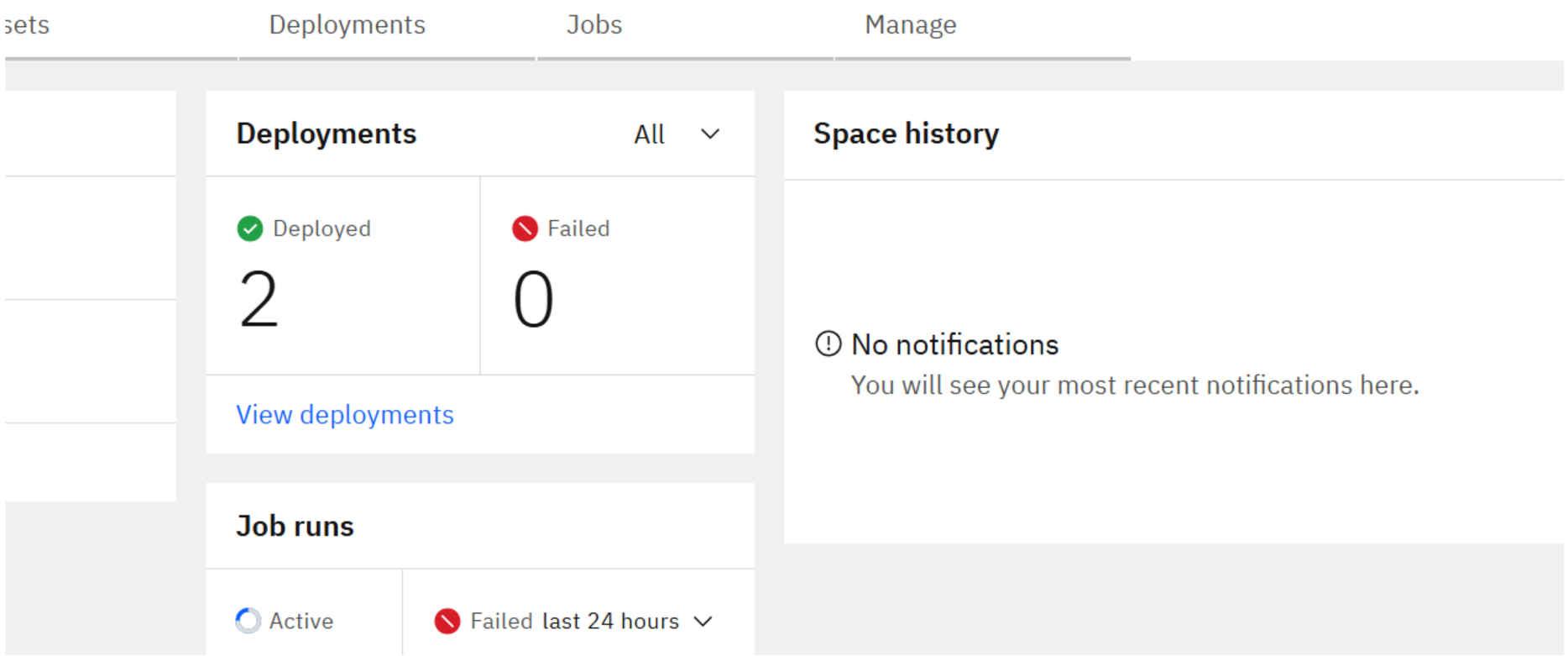
Results



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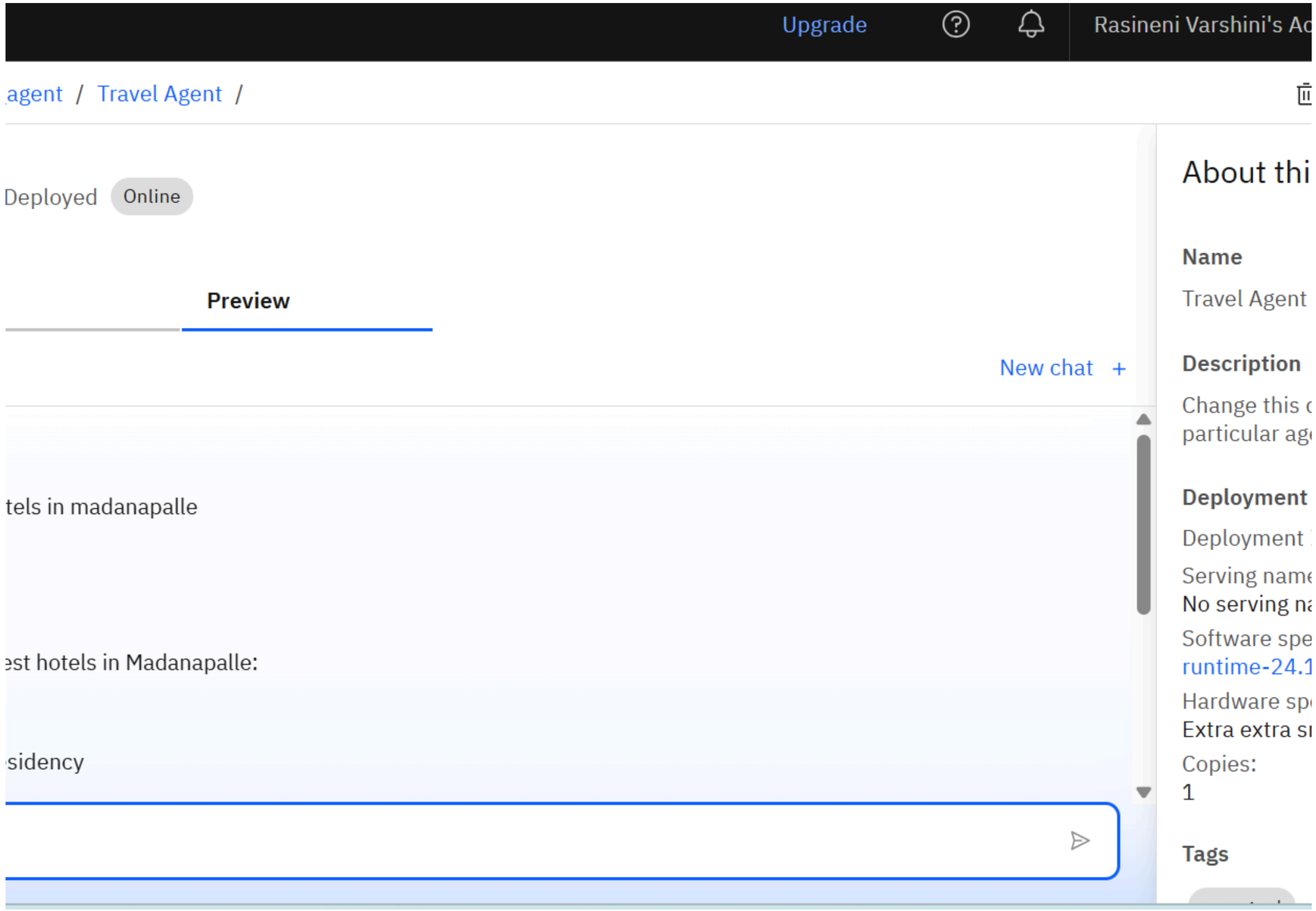
deployed Ai agent

Functionality :The assistant is able to understand natural language .

Queries . It provides relevant and location-specific travel suggestions



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Conclusion

- The Travel Agent assistant gives hotel suggestions based on user queries.
- It works well and can be used in travel-related problems and gives best solutions.
- It saves time by automating booking the flights in relevant locations and about the stays.ement

Future scope

1. Add live hotel booking feature.
2. Suggest flights and travel packages.
3. Support multiple languages
4. Use voice input for easier access.
5. Show maps and nearby places.

IBM Certifications

In recognition of the commitment to achieve professional excellence

Getting Started with Artificial Intelligence

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Has successfully satisfied the requirements for:

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IBM **SkillsBuild** Completion Certificate

This certificate is presented to

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for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 28 Jul 2025 (GMT) **Learning hours:** 20 mins

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GiT HUB LINK:

- Git hub link :

Thank you

-rasineni varshini

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