Travel Planner Agent

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OUTLINE

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- **Algorithm & Deployment**
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- **Conclusion**
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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

An AI Agent powered by Retrieval-Augmented Generation (RAG), using IBM Cloud & Granite, to answer user queries, guide financial decisions, and educate people on secure digital finance

TECHNOLOGY USED

☐ IBM Cloud Lite Services

☐ IBM Watsonx AI Studio

☐ IBM Granite Foundation Model

☐ Retrieval-Augmented Generation (RAG)

☐ Natural Language Processing (NLP)

☐ Multilingual Support
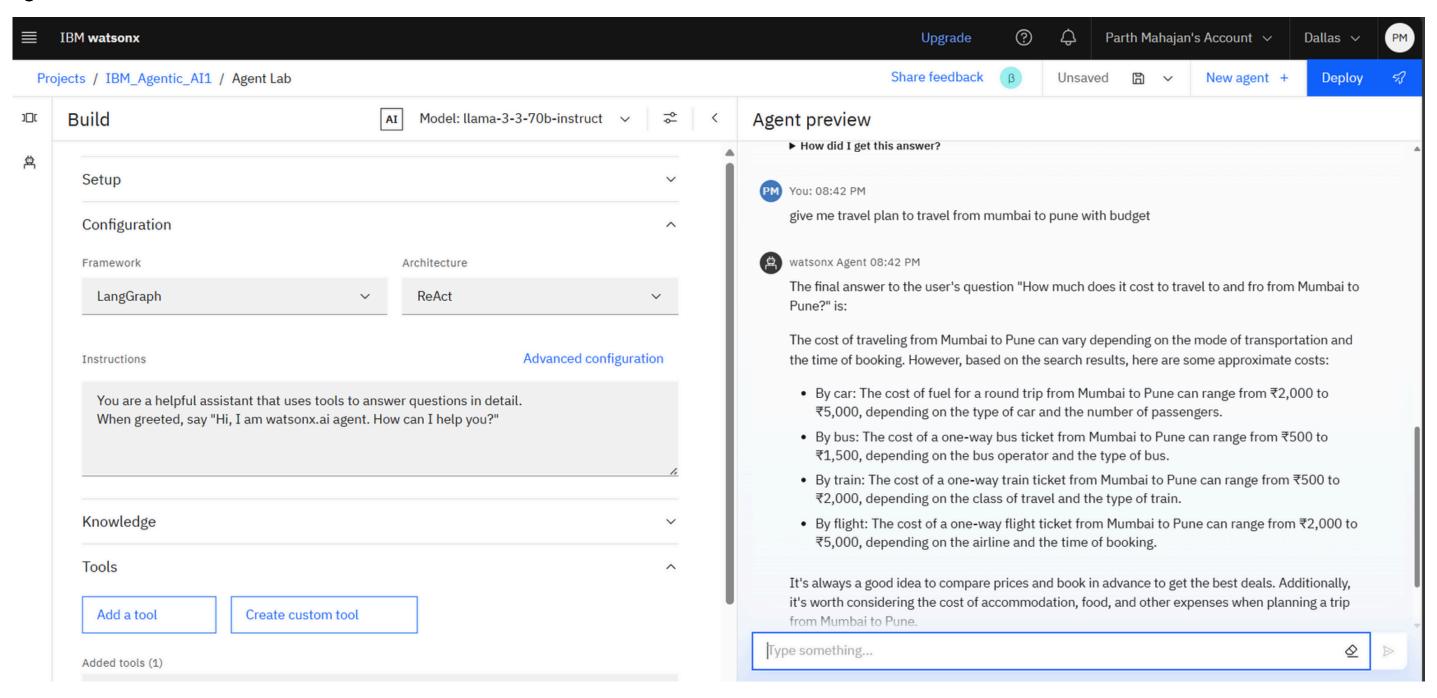
☐ Secure API Integrations with Govt/Bank portals

IBM CLOUD SERVICES USED

 IBM Cloud Watsonx AI Studio

 IBM Cloud Watsonx AI runtime

 IBM Cloud Agent Lab

 IBM Granite foundation model

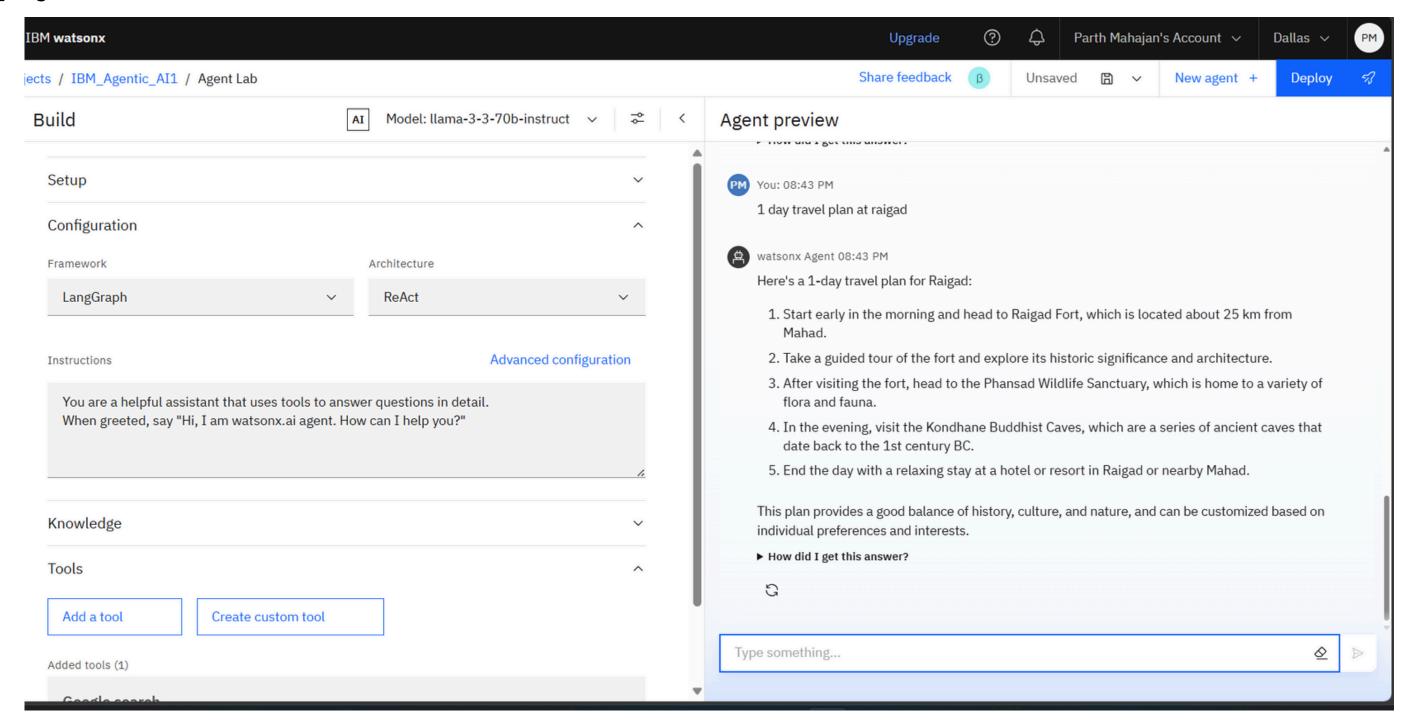# End Users

1. Individual Travelers
2. Working Professionals
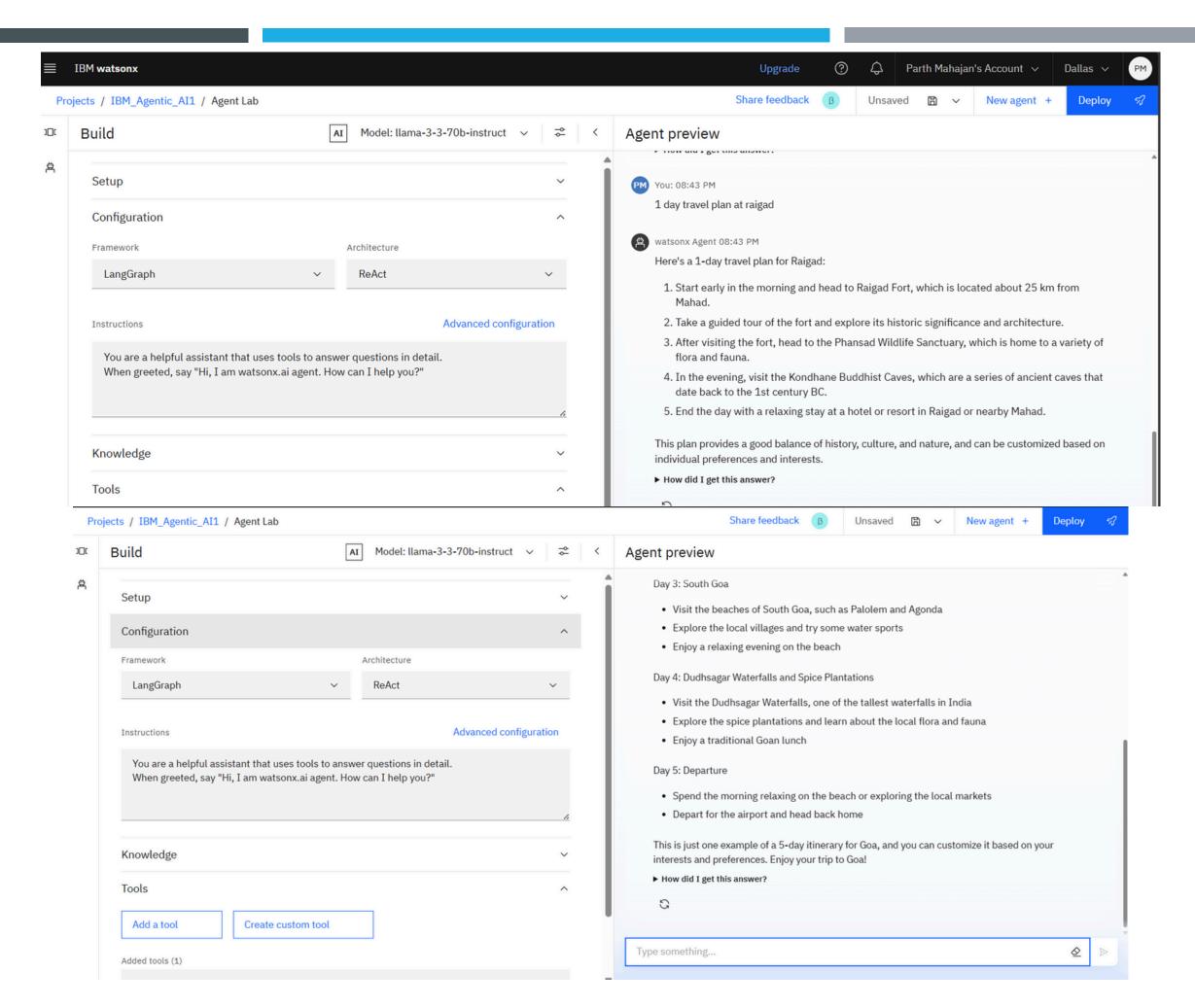3. Senior Citizens
4. Travel Agencies and Agents
5. Foreign Tourists

Result

Preview :
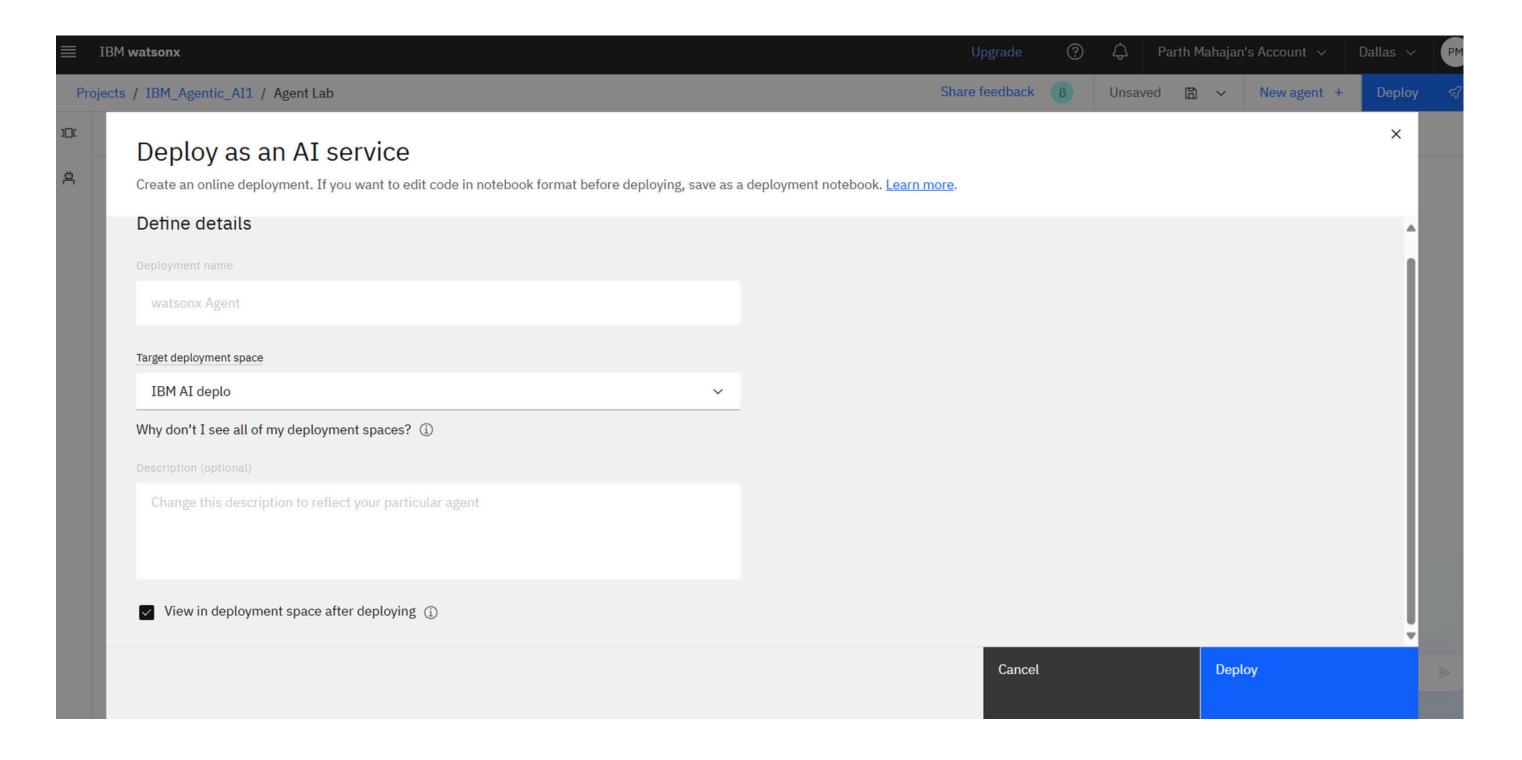
Result

Preview :

Result

Preview :

Result

CREATING DEVELOPMENT SPACE

Result

DEVELOPMENT :

Conclusion

 Built on IBM Cloud Lite, integrated with Granite LLM and RAG architecture, the agent sources updated, trustworthy data from travel portals, tourism boards, and booking services.
 Suggests cost-effective and optimized travel itineraries
 Helps compare transportation and accommodation options
 Offers weather, visa, and safety information
 Enhances decision-making through alerts and personalized recommendations

Future scope

 Generate AI-powered travel summaries and cost reports to help users analyze and optimize their trips

 Expand into local tourism, eco-tourism, and international travel assistance

 Collaborate with transport services, hotel chains, and tourism boards to offer real-time, personalized

IBM Certifications

In recognition of the commitment to achieve professional excellence

Getting Started with
Artificial Intelligence
IBM SkillsBuild

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Screenshot/ credly certificate(getting started with AI)

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence

Issued on: Jul 16, 2025
Issued by: IBM SkillsBuild

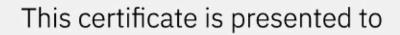Verify: https://www.credly.com/badges/5981d6b4-4a64-468b-a87d-899ff6998709

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IBM Certifications

In recognition of the commitment to achieve
professional excellence

Journey to Cloud:
Envisioning
Your Solution

IBM SkillsBuild

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Screenshot/ credly certificate(Journey to Cloud)

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IBM Certifications

IBM **SkillsBuild**   Completion Certificate

This certificate is presented to

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Screenshot/ credly certificate(RAG Lab)

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 22 Jul 2025 (GMT)   **Learning hours:** 20 mins

Github link:

https://github.com/parthmahajan49/IBM-Final-Project

THANK YOU