AICTE PROJECT

TRAVEL PLANNER AGENT

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OUTLINE

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- IBM Certifications
- Git-hub Link



PROBLEM STATEMENT

Planning a trip—whether for leisure or business—is often a time-consuming and overwhelming task. Travelers face challenges such as researching destinations, comparing flights and accommodations, organizing itineraries, managing budgets, and dealing with last-minute changes or disruptions. These tasks require switching between multiple apps and platforms, leading to fragmented and inefficient planning experiences. There is a need for an intelligent, all-in-one solution that can simplify and streamline the entire travel planning process by providing personalized recommendations, smart itineraries, and real-time assistance—all in one place.



PROPOSED SOLUTIONS

- Trip Genie is an intelligent AI travel agent powered by IBM Watsonx and advanced Large Language Models (LLMs) to revolutionize the way users plan and experience travel. By harnessing the capabilities of Watsonx.ai, Trip Genie can understand natural language queries, interpret user preferences, and generate dynamic, personalized travel plans in real time. The LLM enables deep contextual understanding, allowing the agent to:
 - Suggest ideal destinations based on user interests and travel history
 - Generate complete day-by-day itineraries
 - Assist in hotel, flight, and activity bookings
 - Respond to follow-up questions and changes with contextual memory
- Provide real-time travel assistance such as weather updates, visa requirements, or cancellation policies



TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

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



END USERS

- Leisure Traveler
- Business Travelers
- First-Time Travelers
- Travel Enthusiasts / Digital Nomad
- Event and Group Planners
- Students Studying or Traveling Abroad

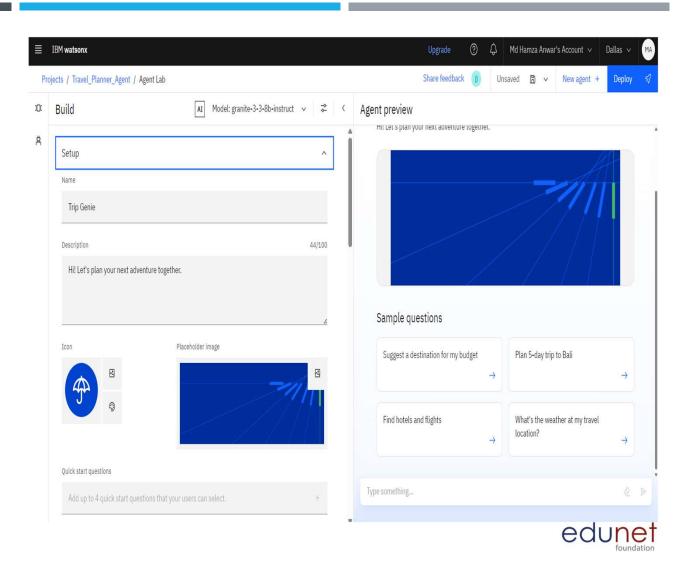


WOW FACTORS

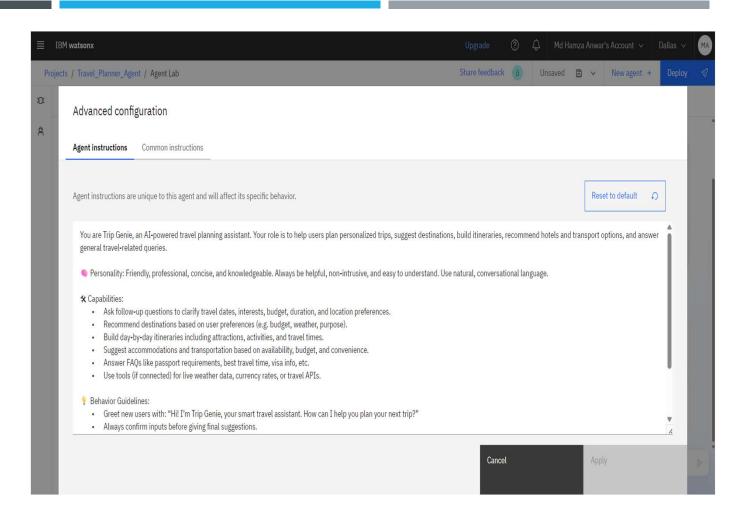
- Built on IBM Cloud with secure, scalable infrastructure
- Utilizes Watsonx.ai for powerful, natural language conversations
- Personalized Al-generated itineraries based on user preferences
- End-to-end trip planning in a single platform
- Context-aware LLM with memory for seamless follow-ups
- Smart budget planner and cost-optimized suggestions
- Eco-friendly travel recommendations
- Offline access to itineraries and emergency assistance
- Easily extendable for travel agencies, corporates, and universities
- Enterprise-grade Al governance and data privacy with Watsonx



1. SETUP...

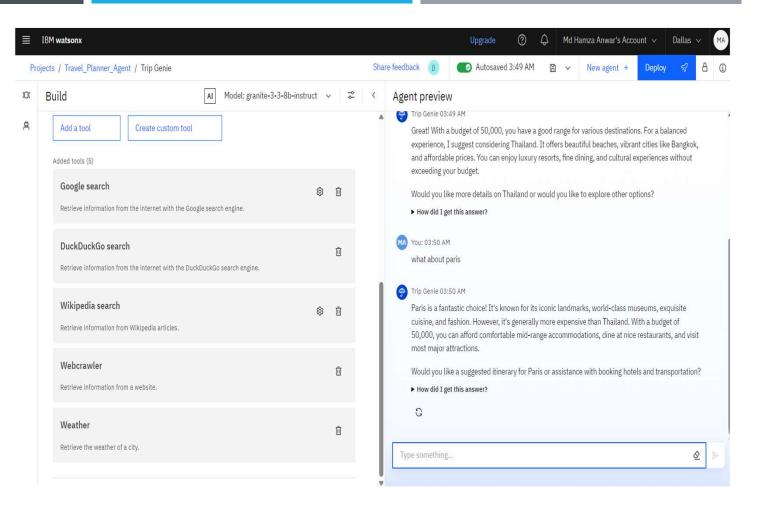


2. AGENTS INSTRUCTIONS...



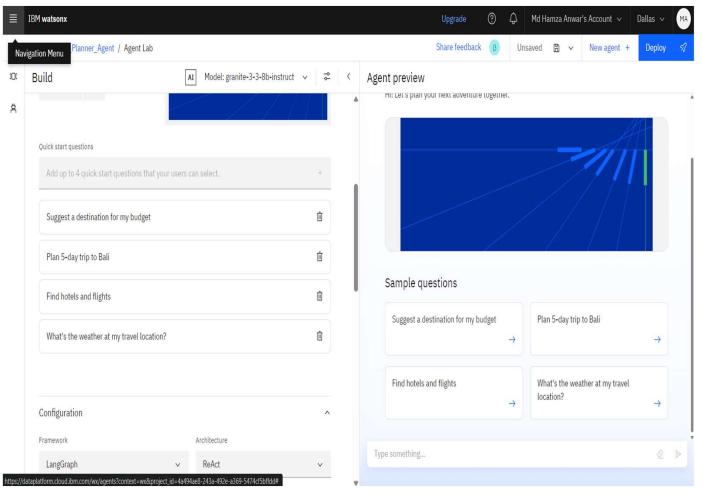


3. TOOLS USED...



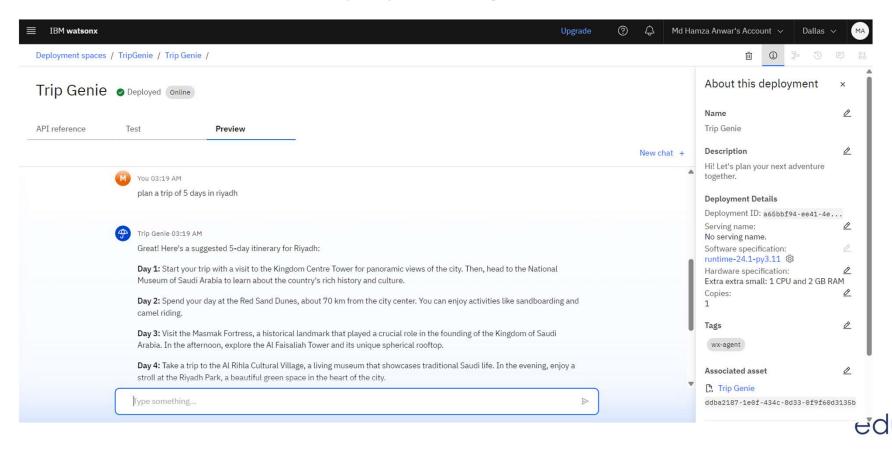


4. QUICK START QUESTIONS..





Deployed AI Agent



CONCLUSION

- Trip Genie provides a smart AI driven solution for end to end travel planning.
- Built using IBM Cloud and watsonx.ai, it enables natural, conversational interactions.
- It simplifies trip management with real-time alerts, personalization and automation.
- A future-ready tool designed to enhance convenience, accuracy and user experience in travel



FUTURE SCOPE

- Integration with AR/VR for immersive destination previews
- Voice-only travel planning via smart assistant (e.g., Alexa, Siri)
- Depper personalization using user behavior and travel history
- Blockchain-based secure travel document handling
- Al chatbot extension for post-trip feedback and review
- API support for integration with third-party travel apps and agencies



IBM CERTIFICATIONS

Screenshot/ credly certificate(getting started with Al)

In recognition of the commitment to achieve professional excellence



Md Hamza Anwar

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 21, 2025 Issued by: IBM SkillsBuild

Verify: https://www.credly.com/badges/06190155-c103-4a75-97d7-63f85850e16e





Attach your RAG LAB certificate here

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Md Hamza Anwar

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 23 Jul 2025 (GMT)

Learning hours: 20 mins



Git hub link: https://github.com/HamzaAnwar2801/TripGenie_Agent_Al



GITHUB LINK

Make sure that there should be readme file :
https://github.com/HamzaAnwar2801/TripGenie_Agent_Al/blob/main/README.md



THANK YOU

