CAPSTONE PROJECT

TRAVEL PLANNER AGENT

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OUTLINE

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PROBLEM STATEMENT

Design and develop an Al-powered Travel Planner Agent that:

- Creates personalized travel plans based on user input
- Suggests destinations and builds itineraries
- Recommends transport and stay options
- Uses live data like weather, traffic, and events
- Manages bookings and sends alerts
- Dynamically adjusts schedules for better travel flow

Proposed Solution:

To deal with a concern, we propose an AI-powered Travel Planner Agent using IBM Cloud Lite and IBM Granite. It will use natural language input to understand user preferences, budget, and travel details, providing personalized, real-time trip plans through IBM Watson Assistant.



TECHNOLOGY USED

- IBM Granite Model
- Retrieval-Augmented Generation (RAG)
- IBM Cloud Services
- Large Language Models (LLMs)
- Conversational Al



IBM CLOUD SERVICES USED

- IBM Cloud Object Storage
- IBM Cloud Watsonx Al Runtime
- IBM Cloud Agent Lab
- IBM Granite Foundation Model
- IBM Cloud Watsonx Al Studio
- IBM Deployment Service



WOW FACTORS

The Travel Planner Agent leverages IBM Granite and IBM Cloud to provide a smart, conversational interface for effortless trip planning. It understands user preferences, budgets, and constraints to deliver personalized travel recommendations. With real-time itinerary updates based on weather and delays, and intelligent destination suggestions, it ensures a smooth and tailored travel experience.

Unique features:

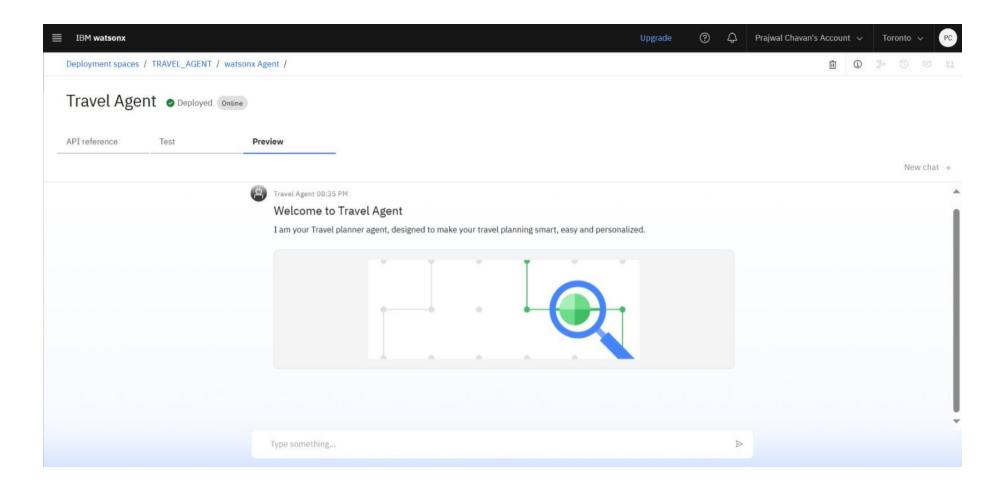
- Delivers personalized recommendations using IBM Granite's natural language understanding
- Combines real-time maps, weather, and booking info for smooth trip planning
- Provides suggestions tailored to user preferences, budget, and travel time
- Enables an interactive chat experience through IBM Watson Assistant
- Recommends trips based on individual interests, budget, and schedule



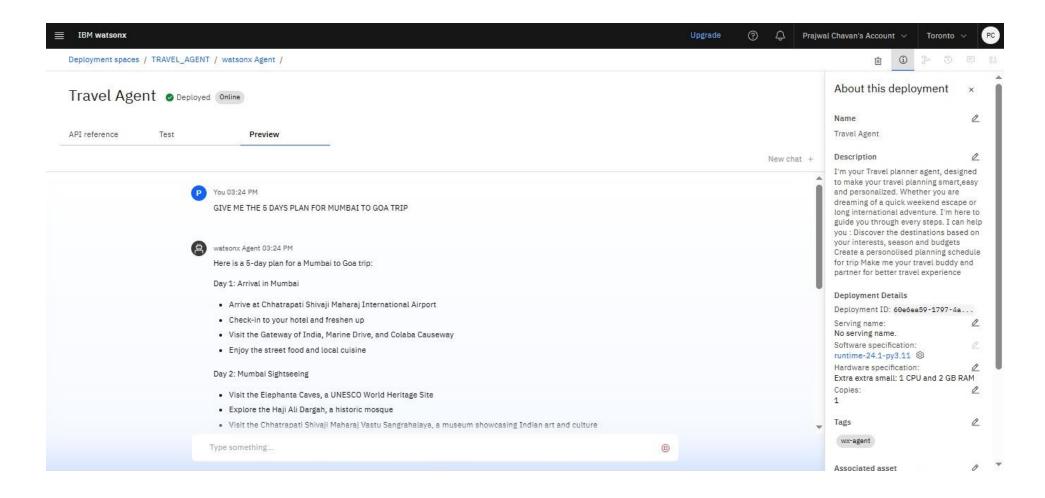
END USERS

- Independent travellers seeking tailored experiences
- Digital content creators and travel influencers
- Customized tour providers and travel consultants
- Corporate professionals on multi-destination business trips
- Academic and research professionals attending events or fieldwork

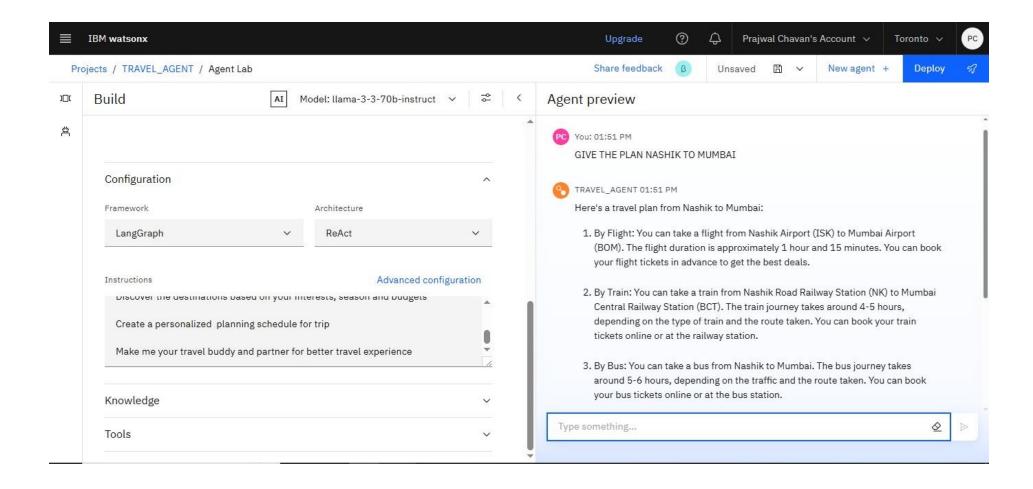






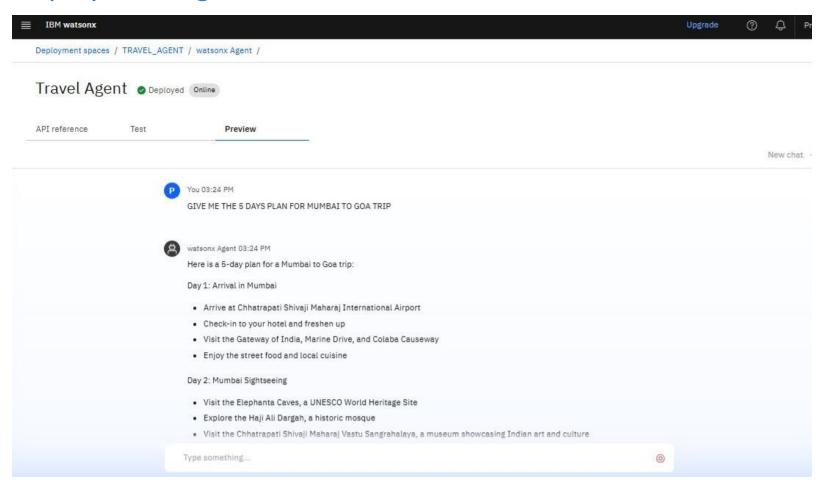








Deployed Al Agent





CONCLUSION

- The agent can recommend destinations, create itineraries, and even suggest accommodations and activities.
- It saves time by automating travel planning tasks like route optimization, budget estimation, and local attraction discovery.
- Travel Planner Agents enhance efficiency, personalization, and user satisfaction in both casual and professional trip planning.



FUTURE SCOPE

- Multilingual Travel Assistance Voice
- Activated Trip Planning
- Real-time Data Integration
- Smart Budget Optimization
- Integration with Booking Platforms
- Personalized Travel Insights



IBM CERTIFICATIONS





IBM CERTIFICATIONS





IBM CERTIFICATIONS

IBM SkillsBuild

Completion Certificate



This certificate is presented to Prajwal Chavan

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



GITHUB LINK

Github link: https://github.com/prajwalchavan007/TRAVEL-PLANNER-AGENT-.git



THANK YOU

