IBM CAPSTONE PROJECT

TRAVEL AI AGENT

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OUTLINE

- Problem Statement
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PROBLEM STATEMENT

- Planning a trip should be exciting—but for many people, it quickly becomes overwhelming.
 From choosing the right destination to juggling flights, hotel options, daily itineraries, and unpredictable weather, the entire process can feel more like a chore than a joy.
- People often spend hours searching through websites, comparing prices, reading reviews, and trying to build the perfect plan that fits their budget and preferences. Even then, lastminute changes or missing information can throw everything off.

Proposed Solution:

- Imagine having a personal travel assistant—one that understands your needs, helps you make smart decisions, and takes the stress out of planning.
- Our Travel Al Agent is an Al-powered assistant that does exactly that. It chats with you to understand where you want to go, your travel dates, what kind of experience you're looking for, and how much you'd like to spend.



TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

IBM Granite model



IBM CLOUD SERVICES USED

- IBM Cloud Watsonx Al Studio
- IBM Cloud Watsonx AI runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model



WOW FACTORS

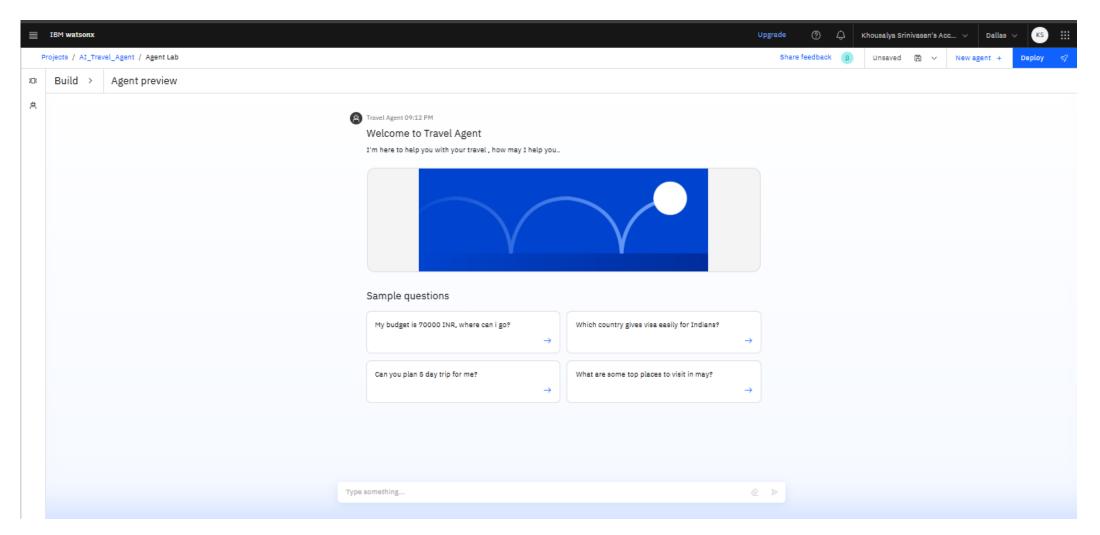
- Natural, Chat-Based Planning
 The agent feels like talking to a real travel expert no forms, just conversation.
- Real-Time Travel Intelligence
 Uses live Google Search to fetch updated info on destinations, weather, and visa rules.
- Truly Personalized Trips
 Builds custom itineraries based on the user's interests, budget, and travel style.
- Everything in One Place
 From ideas to planning no need to switch between websites or apps.
- Zero Code, Fully Functional
 Built entirely using IBM Watsonx Agent Lab and Granite model, no backend coding needed.



END USERS

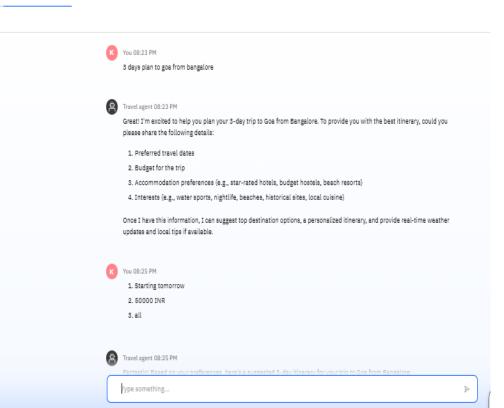
- Frequent Travelers
- First-Time Tourists
- Busy Professionals
- Students & Budget Travelers
- Travel Enthusiasts & Bloggers







Preview





Travel agent 08:25 PM

Fantastic! Based on your preferences, here's a suggested 3-day itinerary for your trip to Goa from Bangalore:

Day 1: Arrival in Goa & Local Exploration

- Morning: Depart from Bangalore to Goa (approx. 6-7 hours by bus or 1-hour flight). Upon arrival, check into your hotel.
- . Afternoon: Visit Calangute Beach, one of Goa's most popular beaches. Enjoy water sports or simply relax on the beach. Explore the nearby shops for local handicrafts and souvenirs.
- . Evening: Head to the famous Baga Beach for sunset and enjoy a leisurely dinner at a beach shack, trying out Goan seafood.

Day 2: Historical & Cultural Sites

- . Morning: Visit the Basilica of Bom Jesus, a UNESCO World Heritage Site in Old Goa. Explore nearby Aguada Fort and its
- · Afternoon: Head to Fontainhas, Goa's Latin Quarter, to experience the colorful Portuguese-influenced architecture.
- . Evening: Enjoy a traditional Goan meal at a local restaurant in Mapusa, a nearby town.

Day 3: Relaxation & Departure

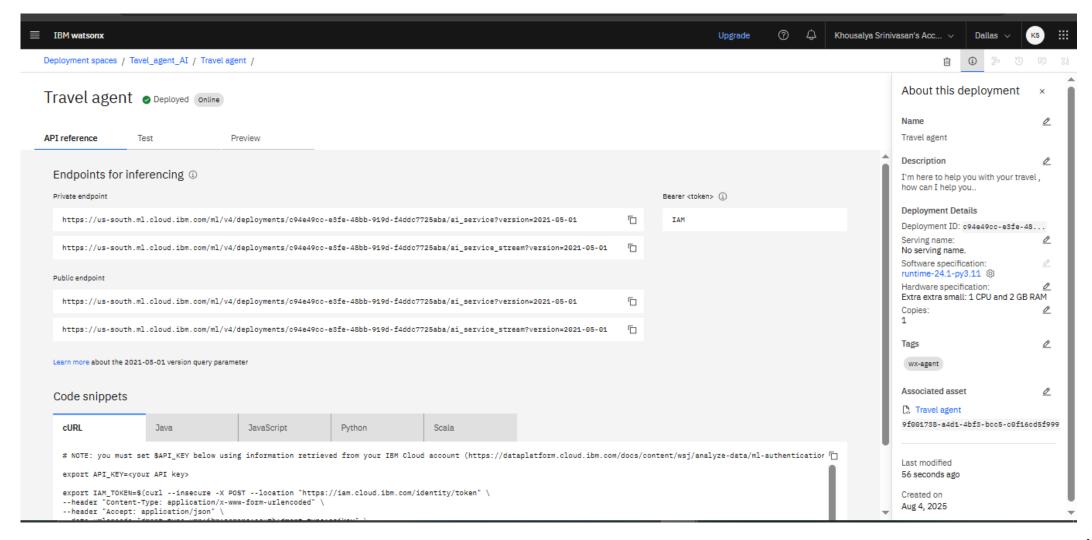
- . Morning: Spend your last few hours in Goa relaxing at Anjuna Beach or visiting the Anjuna Flea Market for shopping.
- . Afternoon: Depart from Goa to Bangalore, with memories of your sun-soaked trip to cherish.

Regarding accommodation, with a budget of 50,000 INR, you can find a range of options, including mid-range hotels and resorts. I recommend booking in advance to secure the best deals.

For real-time weather updates, I'll use the GoogleSearch function.

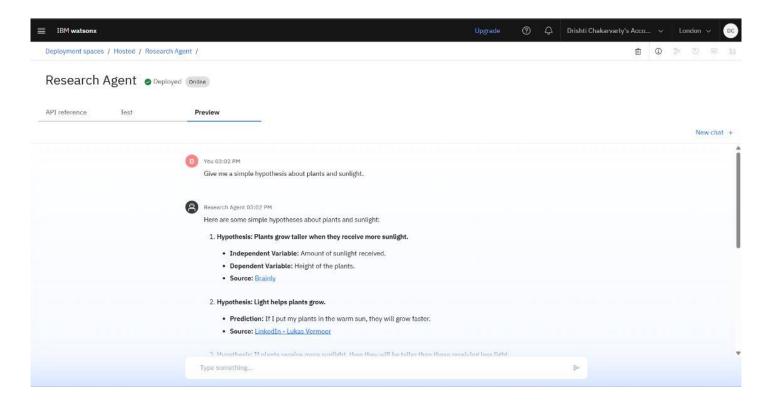
Type something...







Deployed Al Agent





CONCLUSION

Planning a trip no longer has to be stressful or time-consuming. With just a simple chat, our Travel Planner Agent helps users discover where to go, what to do, and how to get there — all based on their unique preferences.

It feels like talking to a travel-savvy friend who just *gets* you. And the best part? We built it with zero code, using IBM Watsonx and Granite — proving that smart Al doesn't have to be complicated. It's travel planning made easy, personal, and fun.



GITHUB LINK

https://github.com/khousalya/Travel_agent_Al/tree/main



FUTURE SCOPE

- Live Booking Integration
 - Users could book flights, hotels, and activities directly through the agent. Voice-Activated Research Assistant
- Voice-Based Interaction
 - Just speak your plan out loud perfect for on-the-go users. Research Gap and Novel Topic Identification
- Multi-language Support
 - Travelers from different countries can chat in their native language. AI-Assisted Paper Drafting
- Real-Time Travel Alerts
 - Get instant updates about delays, weather changes, or safety tips during your trip.
- Group Trip Planning
 - Plan trips with friends or family the agent can manage everyone's preferences in one go.



IBM CERTIFICATIONS

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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: 19 Jul 2025 (GMT)

Learning hours: 20 mins



THANK YOU

