IBM HACKATHON PROJECT

TRAVEL PLANNER AGENT

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PROBLEM STATEMENT

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

- Plans trips based on user preferences
- Suggests destinations, builds itineraries
- Recommends transport and accommodations
- Uses real-time data (weather, maps, events)
- Manages bookings and alerts
- Optimizes schedules dynamically

Proposed Solution:

To address the challenge, we propose building an AI-powered Travel Planner Agent using IBM Cloud Lite services and IBM Granite. This smart assistant will help users plan trips by understanding their preferences, budget, travel dates, and constraints through natural language input. The core functionality will be delivered via a conversational interface powered by IBM Watson Assistant, integrated with IBM Granite to provide intelligent, real-time, and personalized travel recommendations.



TECHNOLOGY USED

- IBM cloud lite services
- Natural Language Processing (NLP)
- Large Language models (LLM)
- IBM Granite model
- IBM App Connect



IBM CLOUD SERVICES USED

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI runtime
- IBM Cloud Functions
- IBM Cloud service
- IBM Granite (via watsonx.ai studio)
- IBM Cloud Object Storage
- IBM AI Tools



WOW FACTORS

The Travel Planner Agent offers impressive features such as real-time itinerary updates based on weather conditions and travel delays, ensuring a smooth journey. It uses IBM Granite's advanced AI to understand user inputs and deliver highly personalized travel plans. The agent intelligently recommends destinations and routes tailored to user interests, budgets, and constraints. Seamless integration across IBM Cloud services enables a natural, conversational experience that simplifies complex travel planning into an effortless task.

Unique features:

- Real-time itinerary adjustment based on live weather and travel updates
- Natural language understanding using IBM Granite for personalized suggestions
- Tailored recommendations based on user interests, budget, and trip duration
- Smart integration of maps, weather, and booking data for seamless planning
- Chat-based interactive experience powered by Watson Assistant
- Serverless backend logic using IBM Cloud Functions for efficiency

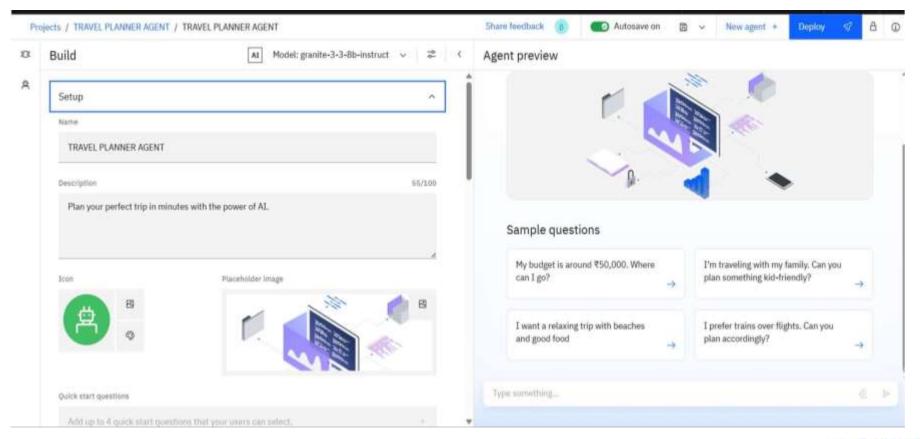


END USERS

- Individual Travellers
- Travel bloggers and influencers
- Travel agencies offering customized experiences
- Business executives planning multi-city trips
- Academic or research-based travelers

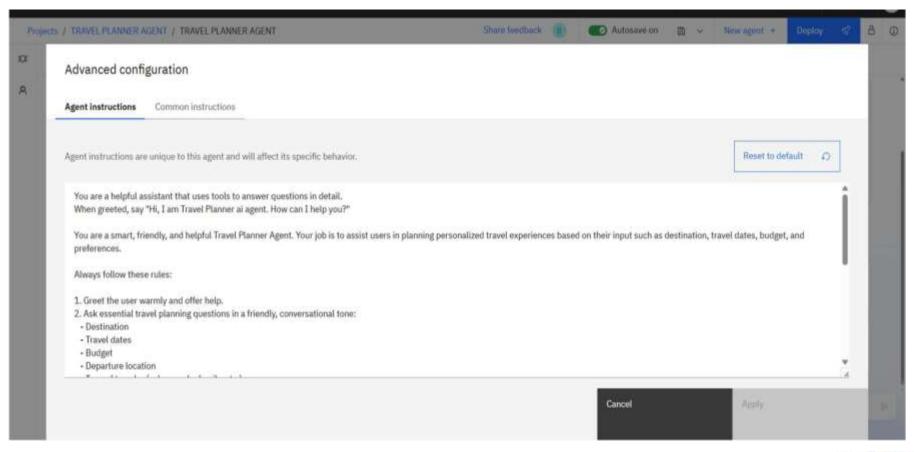


SETTING UP



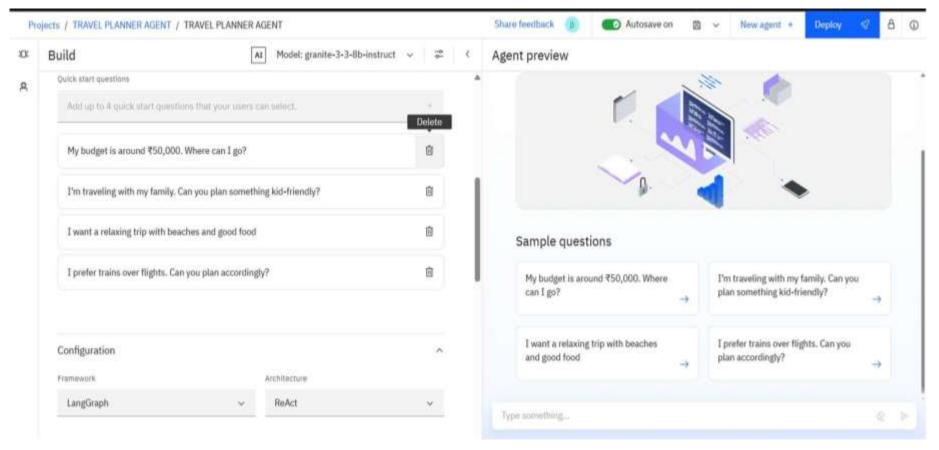


AGENT INSTRUCTIONS



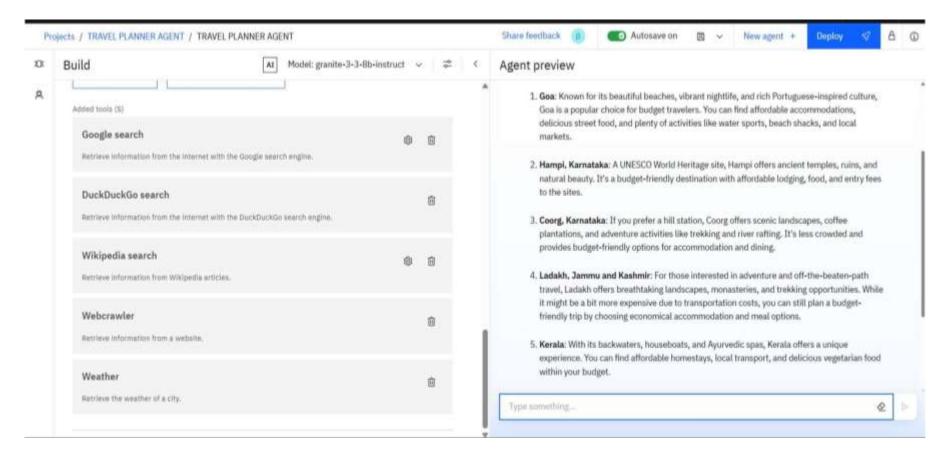


QUICK START QUESTIONS PREVIEW



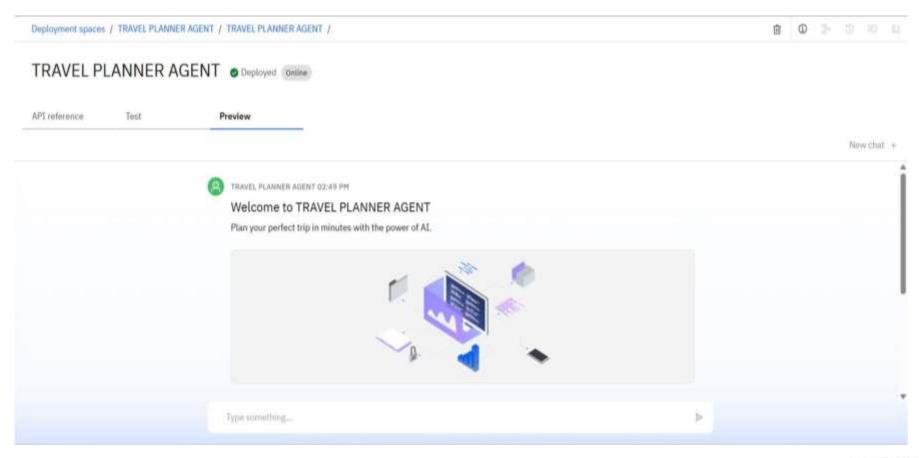


TOOLS USED & TESTING



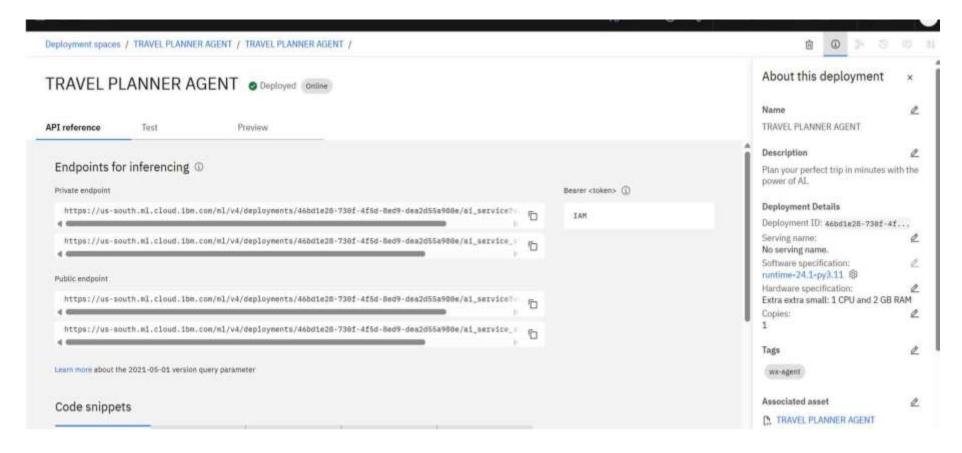


DEPLOYMENT & PREVIEW



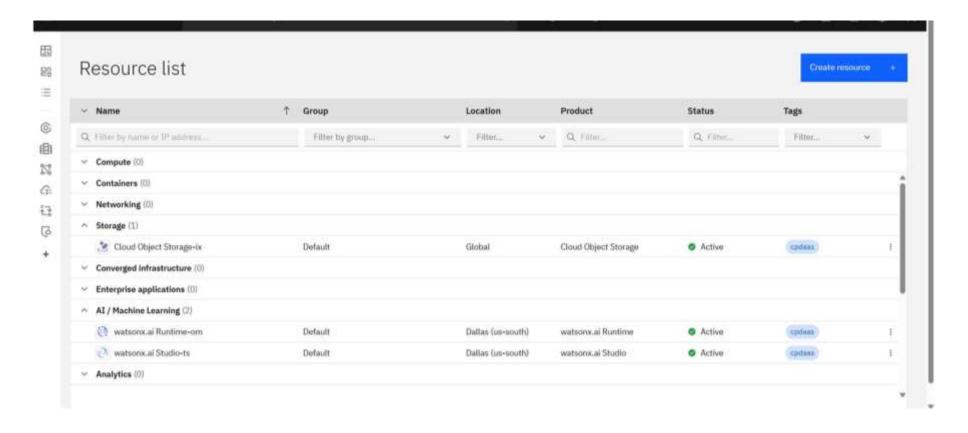


API REFERENCE AFTER DEPLOYMENT

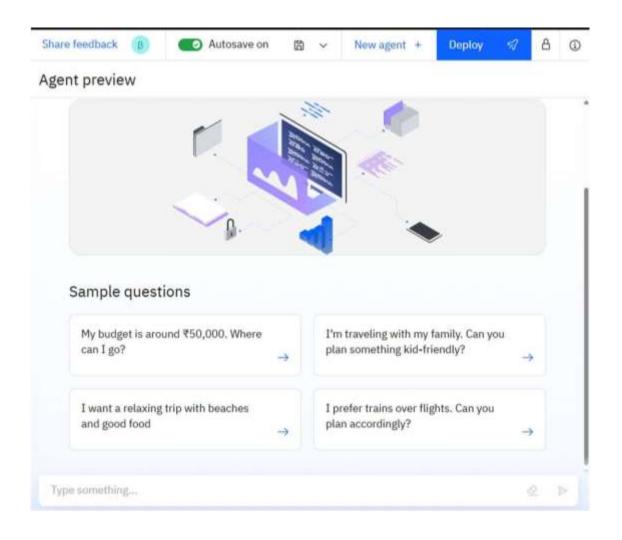




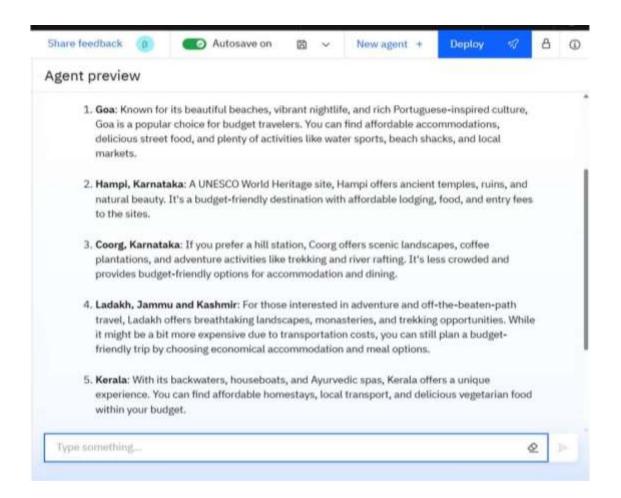
RESOURCES LIST



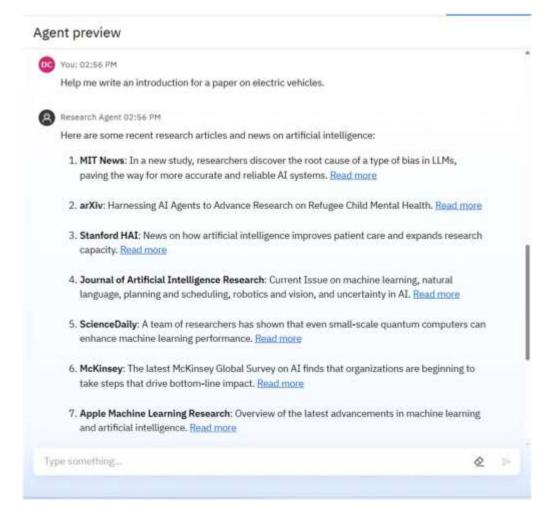














Deployed Al Agent





CONCLUSION

- The Travel Planner Agent significantly reduces the complexity of planning a trip.
- By leveraging IBM Cloud AI services, the agent delivers real-time, personalized, and adaptive travel solutions, helping users enjoy a wellorganized journey.
- It shows the practical application of AI in solving real-life logistical challenges while keeping the experience user-friendly and efficient.



GITHUB LINK

https://github.com/PrithviRajPatel/TRAVEL-PLANNER-AI-AGENT-PROJECT



FUTURE SCOPE

- Voice Assistant Integration (Alexa, Siri, etc.)
- Multilingual Travel Support with Watson Language Translator
- Integration with Booking Platforms (e.g., Skyscanner, Airbnb)
- Emergency Support Services (based on location & alerts)
- Offline Mode Access for remote areas with low connectivity
- AR-Based Virtual Destination Previews
- Al Budget Optimizer to fit best experience under a user's budget
- Travel Community Features recommendations from other users



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THANK YOU

