IBM AICTE PROJECT

TRAVEL AI AGENT

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OUTLINE

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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 (Your Travel Buddy) that analyzes your requirements and needs and provides a detailed itinerary. Allows you to customize your plans according to your needs and interests, also provides additional suggestions for your better experience

TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model

IBM CLOUD SERVICES USED

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

WOW FACTORS

Your Travel Buddy is an AI agent which will significantly reduce research time, improve the quality of your plans, help find and create a perfect itinerary, and make your holiday more enjoyable, allowing you to analyse the needs and requirements and make a perfect plan.

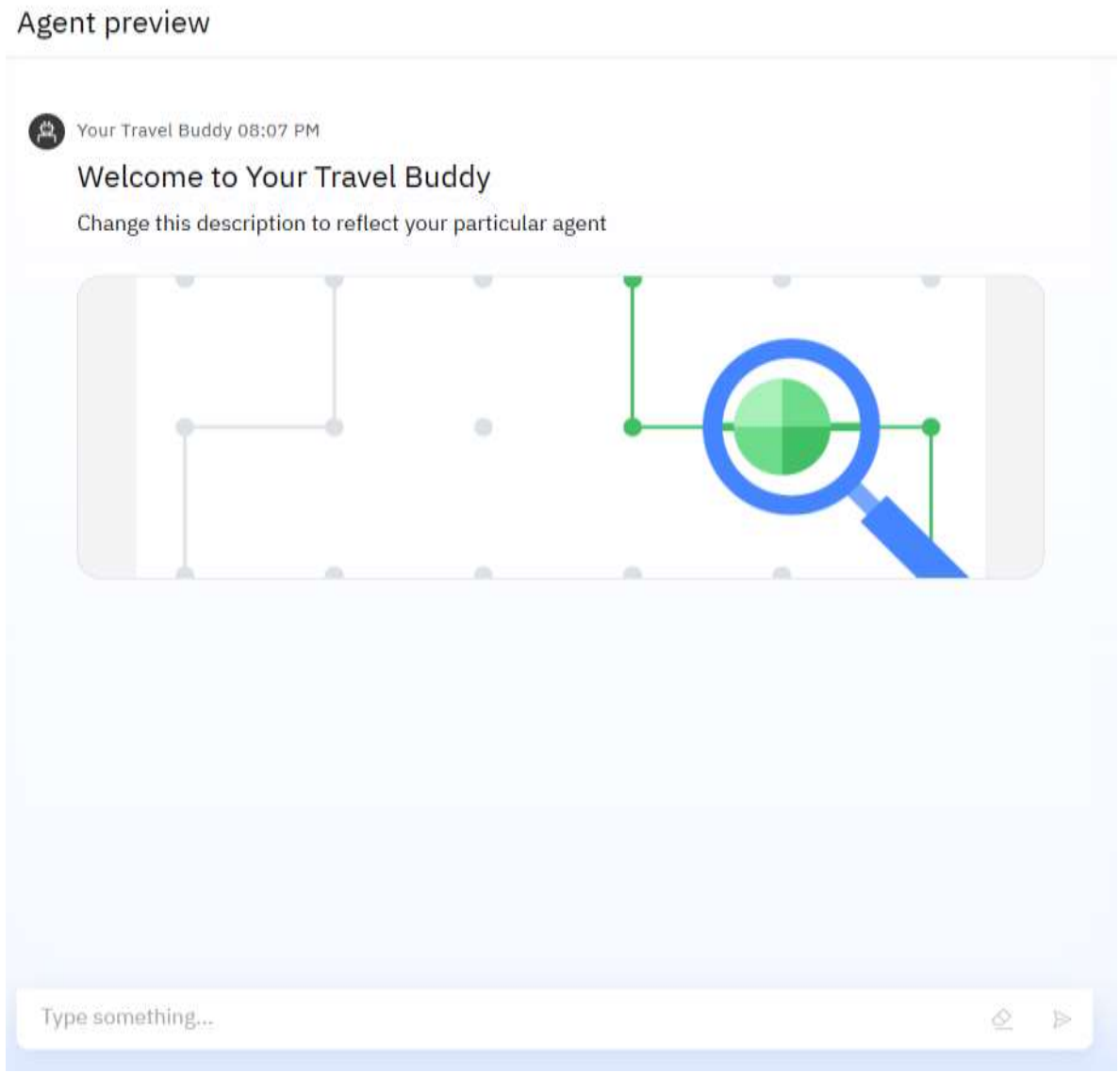
Unique features:

- Semantic search across web for the asked queries or requested information.
- Auto-summarization of all the received queries and analysing.
- Provides results on best searches and findings.
- Provides stay recommendations if requested
- Allows path to reach various booking sites for hotel, flights , trains, buses, etc.

END USERS

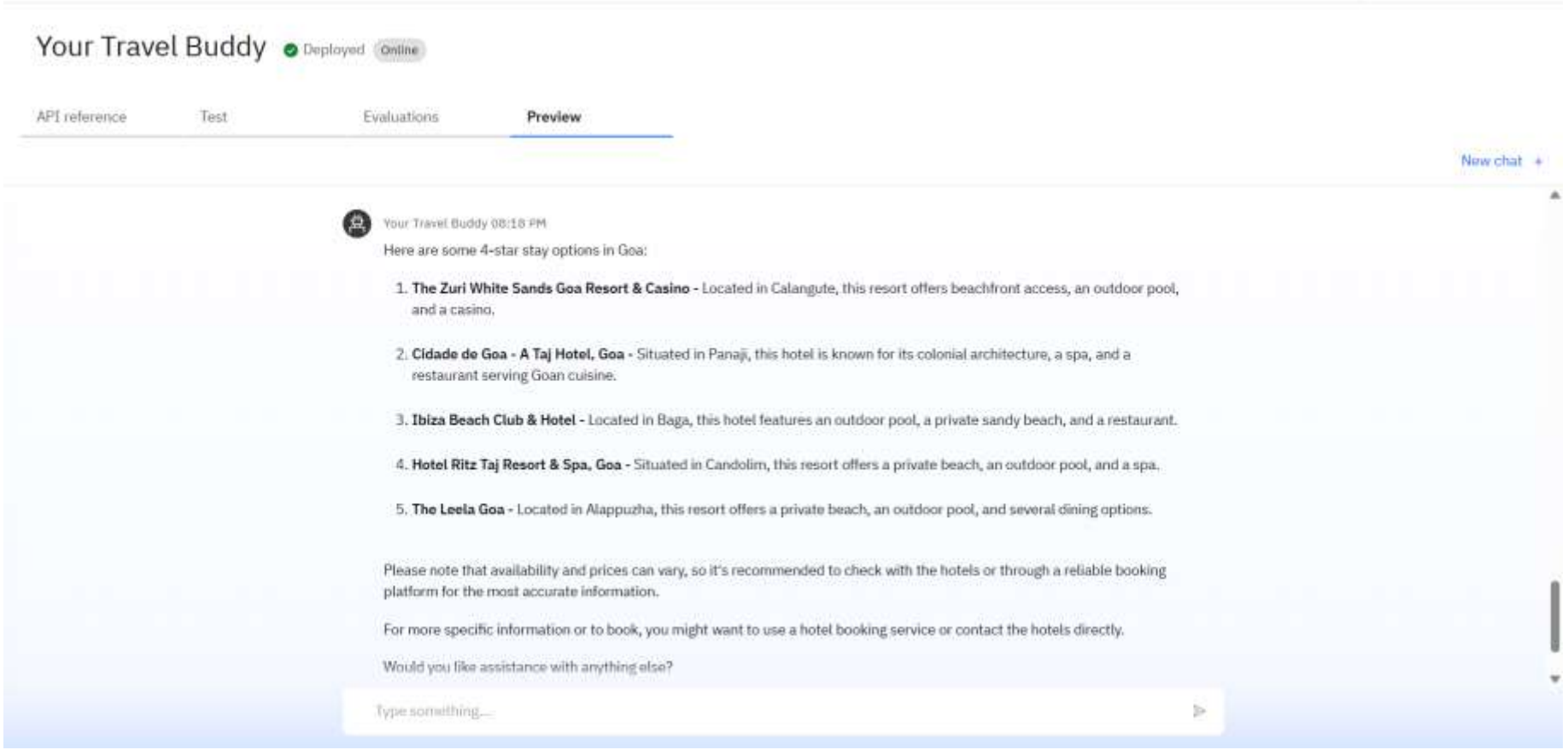
- Travel Agents
- Direct Users
- Anyone with Accessibility

RESULTS


Agent preview
Your Travel Buddy 08:07 PM
Welcome to Your Travel Buddy
Change this description to reflect your particular agent
Type something...

RESULTS

Deployed AI Agent



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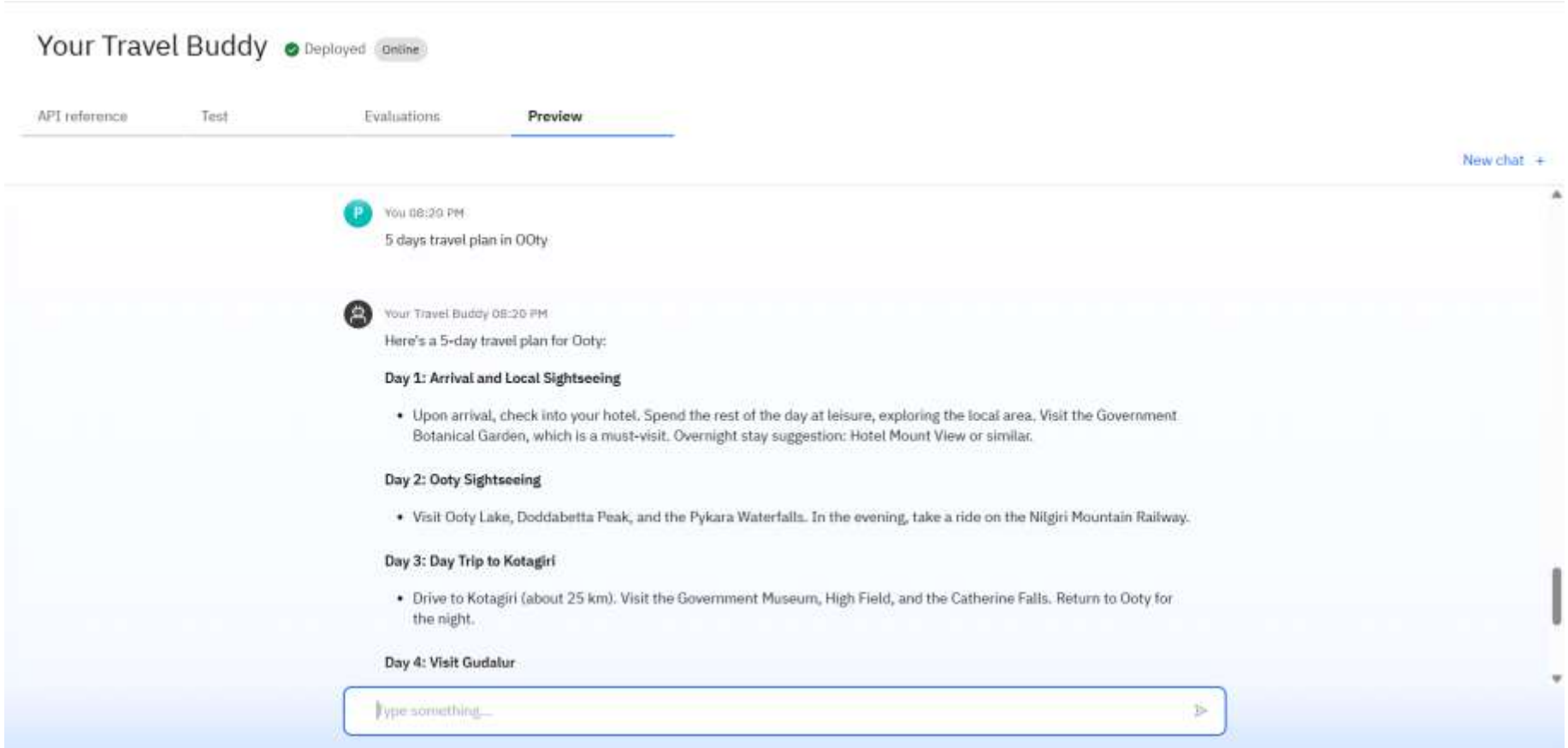
RESULTS

Deployed AI Agent



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CONCLUSION

- **Seamless & Smart Planning:**
  The AI Travel Planner simplifies trip planning through intelligent, conversational interaction—eliminating the need for manual searches across multiple platforms.
- **Personalized Experiences:**
  By understanding user preferences, budget, and travel style, the system generates dynamic itineraries, hotel suggestions, and local insights tailored to individual needs.
- **Future-Ready Enhancements:**
  The system lays the foundation for future features like group trip planning, making it a versatile and evolving travel assistant.
- **User Friendly:**
  Easy-to-use interface allowing no confusion, making it simple for users to go through their plans efficiently.

GITHUB LINK

- https://github.com/Prathameshvd04/IBM-AICTE-Project

FUTURE SCOPE

- Multilingual Research Support
- Voice-Activated Research Assistant
- Real-Time Collaboration Features
- Integration with Publishing Platforms
- Real Time Bookings
- Image Support (Hotels, Destinations, etc)

IBM CERTIFICATIONS

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IBM **SkillsBuild** Completion Certificate

This certificate is presented to

Prathamesh Dhage

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

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THANK YOU

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