

# IBM AICTE PROJECT

## TRAVEL AI AGENT

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# OUTLINE

- Problem Statement
- Technology used
- Wow factor
- End users
- Result
- Conclusion
- Git-hub Link
- Future scope
- IBM Certifications

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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

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# TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model

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# 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.

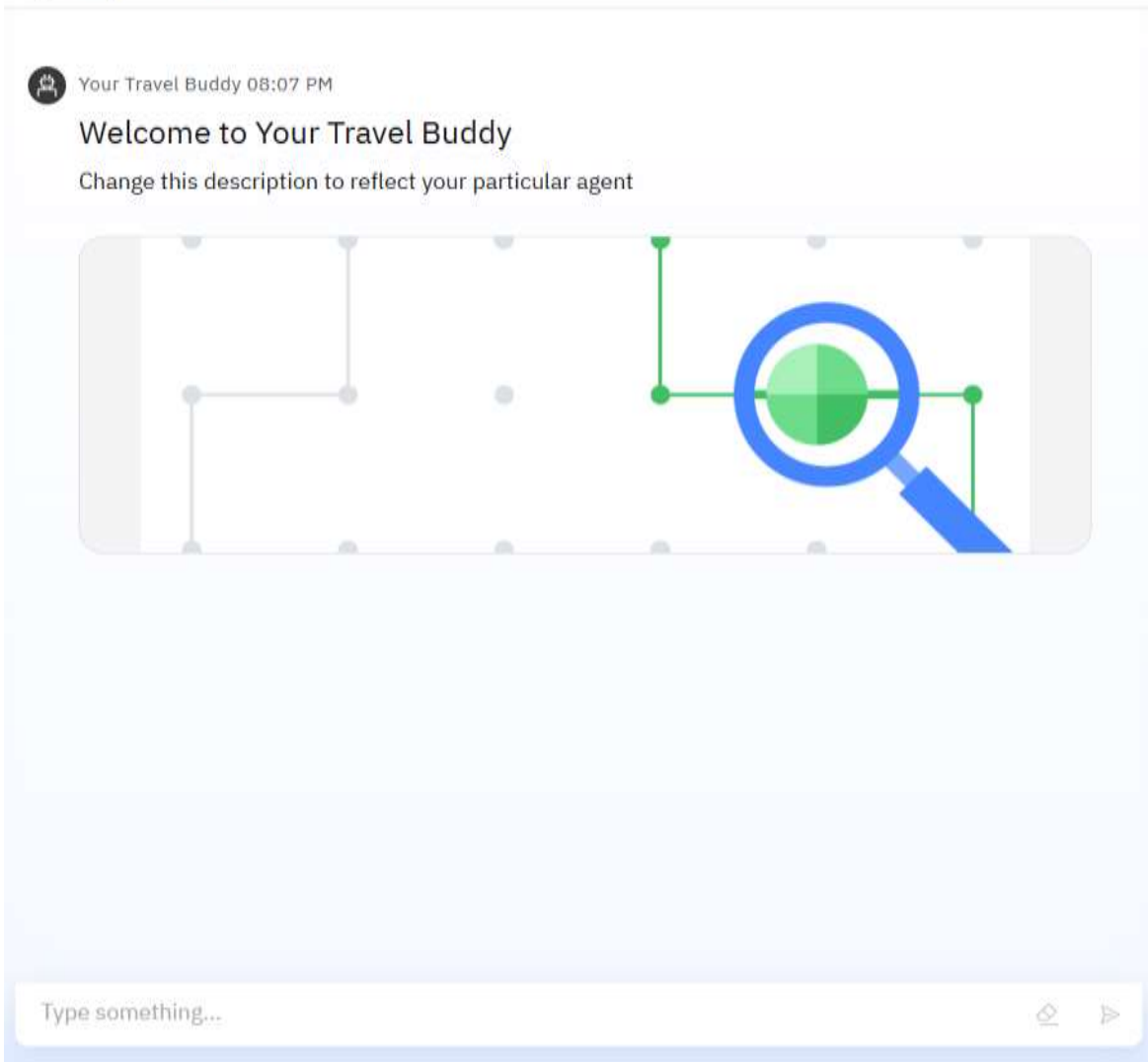
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## END USERS

- Travel Agents
- Direct Users
- Anyone with Accessibility

# RESULTS

## Agent preview





# RESULTS

## Deployed AI Agent

The screenshot displays the 'Your Travel Buddy' AI agent interface. At the top, the agent's name 'Your Travel Buddy' is shown with a green 'Deployed' status and an 'Online' indicator. Below this, a navigation bar includes 'API reference', 'Test', 'Evaluations', and 'Preview' (which is currently selected). A 'New chat +' button is located in the top right corner. The main chat area shows a message from 'Your Travel Buddy' at 08:18 PM, providing a list of 4-star stay options in Goa. The list includes five items, each with a number and a brief description of the hotel's location and amenities. Below the list, there is a note about availability and prices, followed by a suggestion to use a hotel booking service or contact the hotels directly. The chat ends with a question: 'Would you like assistance with anything else?'. At the bottom, there is a text input field with the placeholder 'Type something...' and a send button.

Your Travel Buddy Deployed Online

API reference Test Evaluations **Preview**

New chat +

Your Travel Buddy 08:18 PM

Here are some 4-star stay options in Goa:

1. **The Zuri White Sands Goa Resort & Casino** - Located in Calangute, this resort offers beachfront access, an outdoor pool, and a casino.
2. **Cidade de Goa - A Taj Hotel, Goa** - Situated in Panaji, this hotel is known for its colonial architecture, a spa, and a restaurant serving Goan cuisine.
3. **Ibiza Beach Club & Hotel** - Located in Baga, this hotel features an outdoor pool, a private sandy beach, and a restaurant.
4. **Hotel Ritz Taj Resort & Spa, Goa** - Situated in Candolim, this resort offers a private beach, an outdoor pool, and a spa.
5. **The Leela Goa** - Located in Alappuzha, this resort offers a private beach, an outdoor pool, and several dining options.

Please note that availability and prices can vary, so it's recommended to check with the hotels or through a reliable booking platform for the most accurate information.

For more specific information or to book, you might want to use a hotel booking service or contact the hotels directly.

Would you like assistance with anything else?

Type something...

# RESULTS

## Deployed AI Agent

Your Travel Buddy 🟢 Deployed Online

API reference   Test   Evaluations   **Preview**

New chat +

**P**

You 08:20 PM

5 days travel plan in Ooty

**AI**

Your Travel Buddy 08:20 PM

Here's a 5-day travel plan for Ooty:

**Day 1: Arrival and Local Sightseeing**

- Upon arrival, check into your hotel. Spend the rest of the day at leisure, exploring the local area. Visit the Government Botanical Garden, which is a must-visit. Overnight stay suggestion: Hotel Mount View or similar.

**Day 2: Ooty Sightseeing**

- Visit Ooty Lake, Doddabetta Peak, and the Pykara Waterfalls. In the evening, take a ride on the Nilgiri Mountain Railway.

**Day 3: Day Trip to Kotagiri**

- Drive to Kotagiri (about 25 km). Visit the Government Museum, High Field, and the Catherine Falls. Return to Ooty for the night.

**Day 4: Visit Gudalur**

Type something...

# 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>

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# 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



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



**THANK YOU**