
IBM HACKATHON PROJECT

TRAVEL AI AGENT

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OUTLINE

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PROBLEM STATEMENT

This AI-powered travel assistant is designed to simplify and personalize the entire travel planning experience. It helps users by understanding their preferences, available days, budget, and interests to create a customized itinerary. From suggesting destinations and booking tickets to planning day-wise activities and recommending transportation and accommodations, the AI handles everything in one place. It acts like a smart, responsive guide—ensuring the user has a smooth, efficient, and enjoyable trip without the hassle of manual research and coordination.

Proposed Solution:

An AI Research Agent that uses Natural Language Processing (NLP), Retrieval-Augmented Generation (RAG), to assist users in conducting efficient literature reviews, generating summaries, identifying research gaps, and recommending relevant papers, datasets, or collaborators.

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

- **End-to-End Planning:** From destination selection to ticket booking, itinerary, transport, and accommodation—all handled in one place.
- **Smart Personalization:** Plans trips based on user preferences like interests (nature, food, adventure), budget, available days, and travel style.
- **Dynamic Itineraries:** Creates realistic, day-wise schedules with local travel tips, optimal timings, and grouped nearby attractions.
- **Transport Intelligence:** Recommends best transport modes (flight/train/bus) based on cost, time, and convenience.
- **Stay Suggestions:** Offers accommodation options based on location, user budget, ratings, and availability.
- **Real-Time Guidance:** Can guide users on what to do next, where to go, and how to get there—even during the trip.
- **Instant Replanning:** Adapts plans in real-time if the user changes preferences, dates, or destinations.
- **Conversational UX:** Interacts naturally like a human travel assistant—clear, helpful, and friendly.
- **Time & Cost Saver:** Removes the need for hours of browsing and manual comparison—gets everything done in minutes.
- **Scalable & Global:** Can be extended to support multiple languages, regions, and travel APIs worldwide.

END USERS

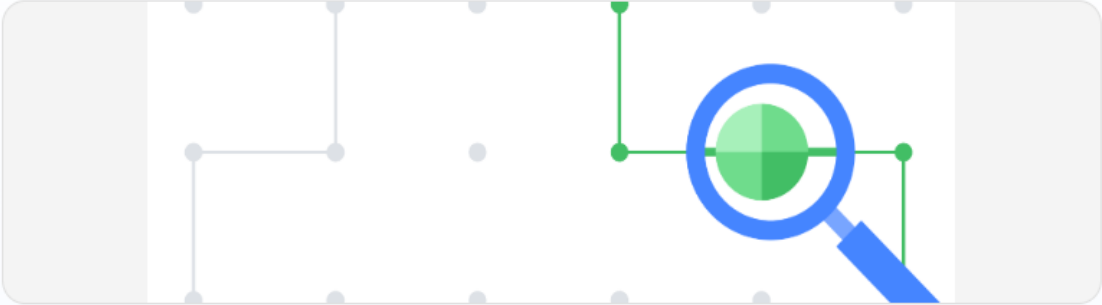
- **Frequent Travelers** – Individuals who travel often for leisure or work and want quick, no-hassle trip planning.
- **Families** – Looking for kid-friendly destinations, stays, and smooth itineraries.
- **College Students & Backpackers** – Budget-conscious users who want affordable travel with exciting experiences.
- **Busy Professionals** – Who don't have time to manually plan every detail and prefer automated solutions.
- **Couples** – Looking for romantic getaways and curated experiences.
- **Senior Travelers** – Needing relaxed, well-paced itineraries and easy-to-navigate plans.
- **Solo Travelers** – Seeking safety tips, personalized routes, and local insights.
- **Wellness & Retreat Seekers** – Users planning trips focused on relaxation, spas, yoga, or nature.
- **Event Travelers** – People attending weddings, conferences, or concerts who need short-term travel planning.
- **Corporate Travel Planners** – Companies planning employee travel and accommodations.
- **Tour Operators & Travel Agencies** – Integrating AI to assist in planning customer packages.



RESULTS

 Travel Agent 06:09 PM

Welcome to Travel Agent

I am an AI buddy to plan your trips into an adventurous, fun and exciting trip



Type something...  

RESULTS



You: 06:24 PM

Give me 5 days travel plan from bangalore to goa



Travel Agent 06:24 PM

Based on the search results, here's a 5-day travel plan from Bangalore to Goa:

Day 1: Arrival in Goa

- Arrive at Goa International Airport or Madgaon Railway Station
- Check-in to your hotel or resort
- Spend the day relaxing on the beach or exploring the local market

Day 2: North Goa

- Start the day with a delicious breakfast
- Visit the famous Baga Beach and enjoy water sports like parasailing, banana boat ride, etc.
- Head to the nearby Calangute Beach and enjoy the sunset
- In the evening, visit the famous Tito's Lane in Baga for nightlife

Day 3: South Goa

- Start the day with a delicious breakfast
- Visit the famous Palolem Beach in South Goa and enjoy swimming and sunbathing
- Head to the nearby Agonda Beach and enjoy the sunset
- In the evening, visit the famous Colva Beach and enjoy the local cuisine

Day 4: Water Sports

- Start the day with a delicious breakfast

RESULTS

- Head to the nearby Agonda Beach and enjoy the sunset
- In the evening, visit the famous Colva Beach and enjoy the local cuisine

Day 4: Water Sports

- Start the day with a delicious breakfast
- Visit the famous Dona Paula Beach and enjoy water sports like snorkeling, scuba diving, etc.
- Head to the nearby Miramar Beach and enjoy the sunset
- In the evening, visit the famous Panjim Market and shop for local handicrafts

Day 5: Departure

- Spend the morning relaxing on the beach or exploring the local market
- Check-out of your hotel or resort
- Depart for Bangalore or your next destination

This itinerary is a mix of relaxation, adventure, and culture, and can be customized based on your interests and preferences. Additionally, you can also consider visiting other popular attractions in Goa like the Fort Aguada, Basilica of Bom Jesus, and the Goa State Museum.

Please note that this is just a suggested itinerary and you can adjust it according to your preferences and interests. Also, make sure to book your accommodations and transportation in advance to avoid any last-minute hassles.

▼ How did I get this answer?

✓ 1: {"q":"5 days travel plan from Bangalore to Goa"}	✓
✓ 2: Generating final answer	✓
Steps created by Agent	



RESULTS

Deployed AI Agent

[Deployment spaces](#) / [travel_agent1](#) / [Travel Agent](#) /

Travel Agent

● Deployed

Online


API reference

Test

Evaluations

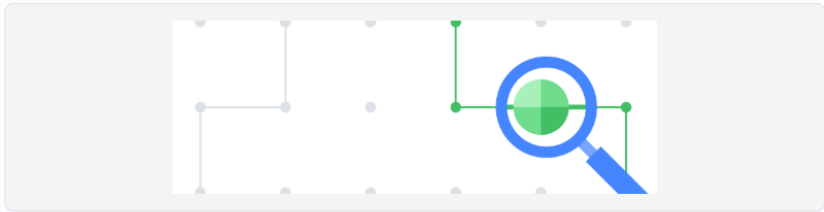
Preview

New chat +

 Travel Agent 07:14 PM

Welcome to Travel Agent

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Type something...

CONCLUSION

The AI-powered travel planner revolutionizes the way people plan and experience travel. By combining intelligent automation with personalized recommendations, it eliminates the stress of manual planning and offers seamless, efficient, and enjoyable journeys. Whether it's a quick weekend getaway or a multi-city adventure, this AI acts as a 24/7 personal travel assistant—smart, responsive, and always ready. With its scalability and user-focused design, it has the potential to transform the future of the travel industry.

FUTURE SCOPE

- Multilingual Research Support
- Voice-Activated Research Assistant
- Real-Time Collaboration Features
- Research Gap and Novel Topic Identification
- Integration with Publishing Platforms
- AI-Assisted Paper Drafting

IBM CERTIFICATIONS

Getting Started with Artificial Intelligence

IBM **SkillsBuild**



IBM

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Prakeerth G

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



THANK YOU