
IBM ACITE PROJECT

Travelling AI Agent

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Problem Statement

- Planning a trip can be time-consuming, confusing, and stressful, especially when travelers have to consider multiple factors like budget, weather, transport, accommodation, and local attractions.
- The challenge is to build an AI-powered Travel Planner Agent that simplifies this process by intelligently generating personalized travel plans using real-time data.
- The system should be able to understand user preferences, suggest destinations, plan itineraries, recommend hotels and transport, and adapt to changes such as delays or weather disruptions — all within the constraints of time and budget.

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

1. AI-Generated Itineraries

- Uses IBM Granite LLM to generate smart, personalized travel plans based on user input.
- No need to manually search — the agent does the thinking for the user.

2. Real-Time Integration

- Live weather updates, transport availability, and local events help adapt the trip dynamically.
- Travelers get up-to-date info for every part of their journey.

3. Conversational Planning

- Chatbot interface powered by Watson Assistant lets users plan trips by simply talking to the agent.
- No forms, no confusing interfaces — just a conversation.

4. Handles Complex Constraints

- Understands and respects user preferences:
 - Budget
 - Time limits
 - Accessibility needs
- Suggests realistic and achievable plans within constraints.

End users

1. Individual Travelers
2. Families and Groups
3. Business Travelers
4. Travel Agencies and Tour Operators
6. Adventure and Niche Travelers

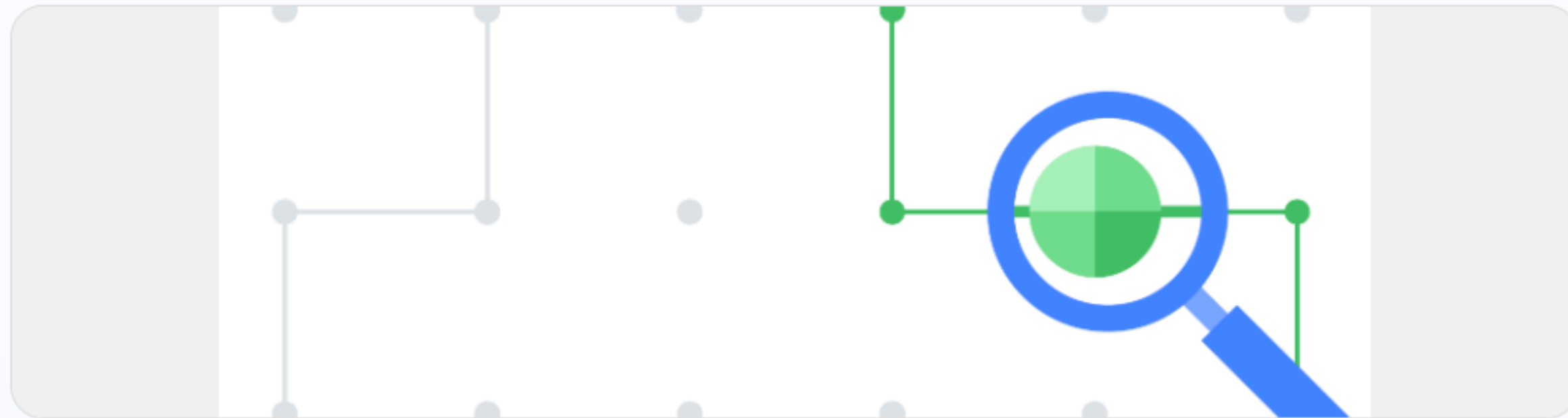
Results



Travel Planner agent 09:37 PM

Welcome to Travel Planner agent

I am a Travel Planner Agent. My goal is to help users plan , Suggest Destinations ,Recommend Hotels.



Results

AS You: 09:40 PM
Can you generate a travelling plan from Kanpur to Goa through train for family of middle class

#6 Travel Planner agent 09:40 PM
Sure, I can help you plan a family trip from Kanpur to Goa by train, keeping in mind your middle-class budget. Here's a step-by-step plan:

Step 1: Ask the User What They Want

- Travel dates: Please let me know your preferred travel dates.
- Duration: How long do you plan to stay in Goa?
- Family members: How many people are in your family?
- Budget: I'll make sure to suggest options that fit within your middle-class budget.

Step 2: Suggest Destinations (if not sure)

Goa is a perfect destination for a family vacation, offering beautiful beaches, water sports, historical churches, and vibrant nightlife.

Step 3: Create a Day-by-Day Plan (Itinerary)

Once I have the travel dates and duration, I'll create a day-by-day itinerary for your family trip to Goa. Here's a sample plan for a 5-day trip:

Day 1:

- Morning: Depart from Kanpur to Goa by train (e.g., 12302 - Uttar Pradesh Express from Kanpur to Margao)
- Afternoon: Check-in at a family-friendly hotel (e.g., Cidade De Goa, Anjuna)
- Evening: Explore Calangute Beach and enjoy a leisurely walk

Day 2:

- Full day: Visit Aguada Fort, Aguada Beach, and the famous Basilica of Bom Jesus
- Evening: Enjoy a traditional Goan dinner at a local restaurant

Day 3:

- Full day: Explore the spice plantations in Ponda and visit the Ancestral Goa Museum
- Evening: Relax at Colva Beach

Day 4:

- Full day: Visit the Bhagwan Shree Samarth Temple in Dwarves and enjoy a river cruise on the Mandovi River
- Evening: Experience Goa's nightlife at a family-friendly club or bar

Day 5:

- Morning: Visit the famous Basilica of Our Lady of the Mount (Bom Jesus Basilica)
- Afternoon: Depart from Goa to Kanpur by train (e.g., 12026 - Mangalore Express from Vasco da Gama to Kanpur)

Step 4: Get Live Data

I'll use real-time data to provide you with the most accurate train schedules, weather forecasts, and local events happening during your trip.

Action:

[Progress bar]

Type something...

Results

give me all the best spots list of goa



Travel Planner agent 09:43 PM

Sure, here are some of the best spots to visit in Goa, catering to various interests:

1. Beaches:

- Calangute Beach: Known as the 'Queen of Beaches', it's perfect for water sports.
- Baga Beach: Ideal for both relaxation and water activities, with a lively nightlife scene.
- Colva Beach: A serene and family-friendly beach with white sand and clear waters.
- Anjuna Beach: Popular for its laid-back vibe, flea market, and yoga retreats.
- Palolem Beach: A quieter, more secluded beach with turquoise waters, perfect for swimming and snorkeling.

2. Historical Sites:

- Basilica of Bom Jesus: A UNESCO World Heritage Site, featuring the tomb of St. Francis Xavier.
- Aguada Fort: Offers stunning views of the Arabian Sea and is a great spot for sunset.
- Chapora Fort: Another historic fort with breathtaking panoramic views.

3. Churches:

- Se Cathedral: A grand baroque cathedral in Panjim, known for its intricate interior design.
- Our Lady of Mount Church (Bom Jesus Basilica): Another UNESCO World Heritage Site, famous for its Latin American baroque architecture.

4. Wildlife & Nature:

- Bhagwan Shree Samarth Temple (Dwarves): A beautiful temple with intricate carvings and a serene atmosphere.
- Cotigao Wildlife Sanctuary: A lush green sanctuary with diverse flora and fauna, perfect for nature lovers and trekking enthusiasts.
- Spice Plantations in Ponda: Explore the diverse spice plantations and learn about the local spice trade.

Type something...



Results

Deployed AI Agent

IBM watsonx

Upgrade ⓘ 🔔

Aditya Singh Sengar's Acco... Dallas AS

Deployment spaces / TripWise / Travel Planner agent /

Travel Planner agent Deployed Online

API reference Test Evaluations **Preview**

New chat +

A You 09:45 PM

give me list all tourists spots in india during winter

🚲 Travel Planner agent 09:45 PM

To provide you with the most accurate information, I'll need to perform a search using real-time data. Here are some popular tourist spots in India that are known to be enjoyable during winter:

1. Shimla, Himachal Pradesh: Known for its colonial architecture, Shimla offers a charming winter experience with its snow-capped mountains and pleasant weather.

2. Mount Abu, Rajasthan: A hill station with a palace and a tranquil lake, Mount Abu is a great place to visit during winter for its cool climate.

3. Gulmarg, Jammu and Kashmir: Famous for its skiing and other winter sports, Gulmarg offers breathtaking views of the Pir Panjal range.

4. Munnar, Kerala: Known as the 'Valley of Tea', Munnar's tea plantations are especially beautiful in winter.

5. Manali, Himachal Pradesh: A popular destination for winter sports and the base for the Rohtang Pass, Manali is also known for its serene beauty.

6. Coorg, Karnataka: Known for its coffee plantations, Coorg offers a peaceful retreat during winter.

7. Ladakh, Jammu and Kashmir: Famous for its high-altitude mountain desert-like landscape, Ladakh is a paradise for

About this deployment

Name

Travel Planner agent

Description

I am a Travel Planner Agent. My goal is to help users plan , Suggest Destinations ,Recommend Hotels.

Deployment Details

Deployment ID: c5a4bacc-143f-49...

Serving name: No serving name.

Software specification: runtime-24.1-py3.11

Hardware specification: Extra extra small: 1 CPU and 2 GB RAM

Copies: 1

Tags

wx-agent

Associated asset

Travel Planner agent

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Last modified

2 hours ago

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Aug 3, 2025

edunet
foundation

Conclusion

- The Travel AI Agent demonstrates how artificial intelligence can revolutionize the way people plan and experience travel.
- By combining user preferences with real-time data on weather, transport, accommodations, and local attractions, the agent delivers fully personalized, efficient, and adaptable itineraries.
- Powered by IBM Cloud Lite services and the Granite foundation model, the solution showcases the potential of agentic AI in simplifying complex, time-consuming tasks.
- It not only reduces the burden of manual planning but also improves the travel experience through smart recommendations and on-the-go support.

GitHub Link

<https://github.com/ADITYA8299/TripWise>

Future scope

- **Voice Interaction:** Add voice input/output for hands-free trip planning
- **Multilingual Support:** Enable support for multiple languages to serve global users
- **Live GPS Integration:** Offer real-time rerouting, local suggestions based on current location
- **Adaptive Learning:** Use feedback and user behavior to improve future recommendations automatically
- **End-to-End Travel Services:** Integrate with APIs for visas, insurance, currency exchange, etc.
- **Mobile App Version:** Develop a full-featured mobile app for broader accessibility
- **Integration with Local Transport:** Connect with ride-sharing and local transport apps for last-mile connectivity

IBM Certifications



IBM **SkillsBuild**

Completion Certificate



This certificate is presented to
Aditya Singh Sengar

for the completion of

**Lab: Retrieval Augmented Generation with
LangChain**

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 24 Jul 2025 (GMT)

Learning hours: 20 mins



THANK YOU