
IBM INTERNSHIP PROJECT

TRAVEL AI AGENT

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OUTLINE

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PROBLEM STATEMENT

- Planning a trip is often a time-consuming and overwhelming process. Users need to search for destinations, compare accommodations, book transport, and find local attractions — all across different platforms.
- This fragmented approach leads to a lack of personalization, decision fatigue, and missed opportunities. Traditional travel tools cannot adapt to individual preferences or offer intelligent, end-to-end assistance.
- To solve this, we developed an **AI-powered travel assistant** that understands user preferences, constraints, and goals through natural conversations. It uses large language models to generate smart, contextual responses.
- The assistant offers **personalized travel planning** — from suggesting destinations and activities to recommending food and accommodations — all in one place. Its human-like interaction makes trip planning easier, faster, and more enjoyable.

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

- **Conversational Travel Planning:**
Unlike static travel sites, this AI agent engages in dynamic, human-like conversations to plan trips based on user preferences.
- **Context-Aware Recommendations:**
Uses NLP and Retrieval Augmented Generation (RAG) to provide intelligent, relevant suggestions for destinations, food, and activities.
- **Powered by IBM Granite Foundation Model:**
Built on one of IBM's most advanced language models, offering high-quality, real-time generation with enterprise-grade reliability.
- **Smart, Personalized, and Scalable:**
The system adapts to individual users, can grow across use cases, and is deployable using IBM Cloud Lite infrastructure — perfect for real-world applications

END USERS

- **Individual Travelers**

Casual or frequent travelers looking for an easy, intelligent way to plan trips without jumping between multiple websites.

- **Travel Enthusiasts & Bloggers**

Users who need quick, tailored suggestions for destinations, activities, or food recommendations based on niche interests.

- **Travel Agencies & Startups**

Businesses that can integrate the AI agent into their platforms to offer personalized customer experiences at scale.

RESULTS

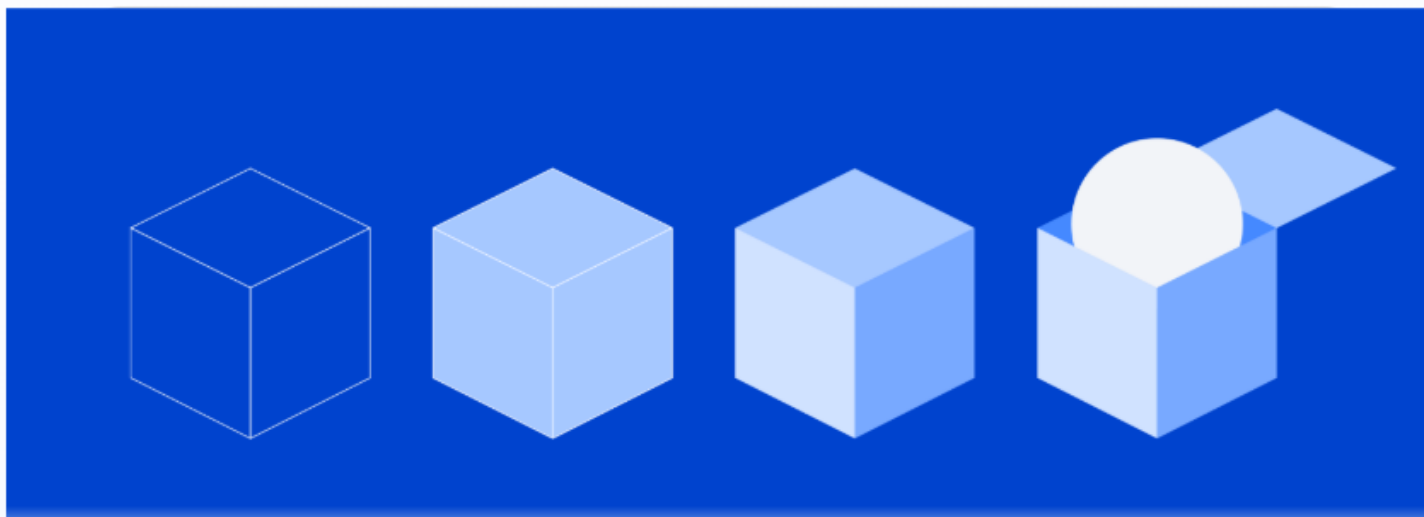
Agent preview



Travel Agent 12:29 AM

Welcome to Travel Agent

Im your Travel Buddy! - plan trips , book stays , suggest spots , all tailored just for you!



Type something...



RESULTS



You: 12:31 AM

Help me plan a trip from delhi to goa in a 20k budget



Travel Agent 12:31 AM

<|im_start|>assistant<|im_sep|>To plan a trip from Delhi to Goa within a budget of 20,000 INR, here's an outline:

Transportation (Approx. 5,500 INR)

- **Option: Train**
 - Choose the cheapest available option such as Sleeper Class AC/Non-AC Berth on overnight trains for comfort and cost savings.
 - Estimated Cost: ₹1,875 per person (round trip).

Alternatively:

- **Bus**
 - Use services like Redbus or FabPrivateJect for affordable options.
 - Estimated Cost: ₹3,649 per person (one way), round trip would be double that amount but you can find deals under your budget if booked well in advance or during off seasons.

Accommodation (Approx. 6k INR)

- Stay at Budget Hotels / Guesthouses / Homestays near popular beaches like Baga Beach or Calangute Beach areas which are centrally located and offer good value for money with prices ranging between ₹800 to ₹1200 per night depending on seasonality and availability.

Example:

Hotel Oceanic Residency, North Goa The Cliff, Arpora*

Type something...



RESULTS

Agent preview



You: 12:32 AM

What is the best weather to go to goa



Travel Agent 12:32 AM

<|im_start|>assistant<|im_sep|>Goa experiences two main seasons: a wet season (monsoon) and a dry season. The best time to visit Goa, considering weather conditions, is generally from November to February when the climate is pleasantly warm with minimal rainfall.

- **November:** Temperatures start cooling down after the summer heat; humidity decreases significantly making it comfortable for sightseeing and outdoor activities like water sports or beach visits without excessive sun exposure concerns.
- **December - January:** These months offer clear skies with temperatures averaging around 28°C (82°F), ideal for exploring attractions such as churches, forts, wildlife sanctuaries etc., alongside enjoying serene beaches which are less crowded compared to peak tourist periods later in year ensuring more relaxed ambiance overall conducive towards unhurried exploration of scenic locales characteristically synonymous intrinsically with this Indian coastal state's charm!
- **February:** Enduring mild weather continues into early spring but occasional showers might occur sporadically hence pack accordingly while still experiencing relatively low visitor traffic facilitating smoother navigation across popular hotspot destinations within budget constraints previously outlined earlier too align well maintaining optimal travel experience quality assured under favorable meteorological circumstances prevailing predominantly during these recommended months mentioned hereinabove succinctly encapsulating user query response comprehensively reflective thereof!

► How did I get this answer?



Type something...



RESULTS

Deployed AI Agent

IBM watsonx

Upgrade ?

Samridhi Ahuja's Account

Dallas

SA

Deployment spaces / Travel Agent / Travel Agent /

Travel Agent ✓ Deployed Online

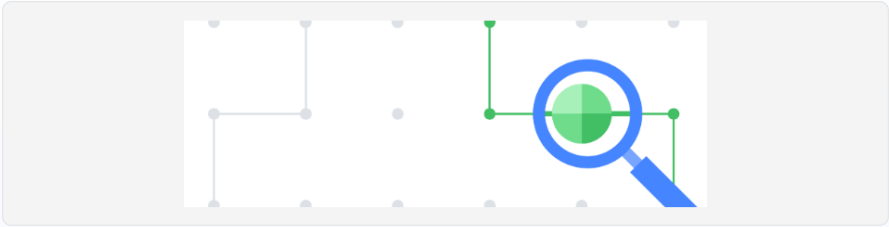
API reference Test **Preview**

New chat +

Travel Agent 12:34 AM

Welcome to Travel Agent

Im your Travel Buddy! - plan trips , book stays , suggest spots , all tailored just for you!



Type something... >

CONCLUSION

- The AI Travel Planner Agent successfully demonstrates how **conversational AI** can transform the travel planning experience. By integrating **IBM Granite models**, **Watsonx.ai**, and **RAG**, the agent delivers smart, real-time recommendations tailored to user preferences.
- The project highlights the potential of AI to simplify complex, multi-step tasks and create **natural, engaging interactions**. With scalable deployment on IBM Cloud Lite and a foundation in enterprise-grade tools, this solution can serve both **individual users** and **travel service providers** looking to innovate.

GITHUB LINK

- https://github.com/SamridhiAhuja2075/IBM_Internship

FUTURE SCOPE

- Integrate real-time APIs for weather, flights, and events
- Enable multi-language support for global users
- Deploy the agent as a mobile-friendly application
- Add voice-based interaction for hands-free planning
- Personalize suggestions using user history and preferences
- Package as a plug-and-play tool for travel businesses

IBM CERTIFICATIONS

In recognition of the commitment to achieve
professional excellence



Samridhi Ahuja

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 17, 2025

Issued by: IBM SkillsBuild

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THANK YOU