
IBM HACKATHON PROJECT

TRAVEL PLANNER AGENT

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OUTLINE

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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.

Proposed Solution:

Our solution is an AI-powered **Travel Planner Agent** designed to transform complex trip planning into a smart, seamless, and personalized experience. Leveraging **IBM Cloud** services, **watsonx.ai**, and the **Granite model**.

TECHNOLOGY USED

- **IBM watsonx.ai** for conversational intelligence and model deployment
- **Granite-3-3-8b-instruct** model for understanding and generating travel plans
- **IBM Cloud Lite** services for scalable deployment
- **llama-3-2-11b-vision-instruct:** for visual recognition, image reasoning, captioning, and answering general questions about an image.
- **llama-3-3-70b-instruct:** for multilingual dialogue use cases and outperform many of the available open source







IBM CLOUD SERVICES USED

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








WOW FACTORS

- **Unique Features:**

This agent significantly reduces the time and effort involved in travel planning, enhances user satisfaction with personalized recommendations, and ensures a seamless travel experience by dynamically adapting to real-time changes. It empowers even inexperienced travelers to plan confidently, economically, and intelligently.

-  Smart destination discovery based on interest, season & budget
-  Auto-generated, personalized itineraries
-  Travel, stay & booking recommendations
-  Dynamic schedule updates for live changes
-  Chat-based interaction via Granite model on watsonx.ai
-  Local guide suggestions & hidden gems

END USERS

-  **First-time Travelers** – Users who need guidance and confidence in planning
-  **Elderly or Non-tech-savvy Individuals** – Assisted, conversational planning through AI
-  **Travel Agents** – As a support tool for generating quick itineraries
-  **Students/Backpackers** – Looking for affordable and personalized travel suggestions
-  **Families & Groups** – Coordinated planning for multiple preferences
-  **Tourists Exploring New Cultures** – Help with local spots, guides, and hidden gems
-  **Frequent Travelers** – Business or leisure travelers who need efficient trip planning

RESULTS

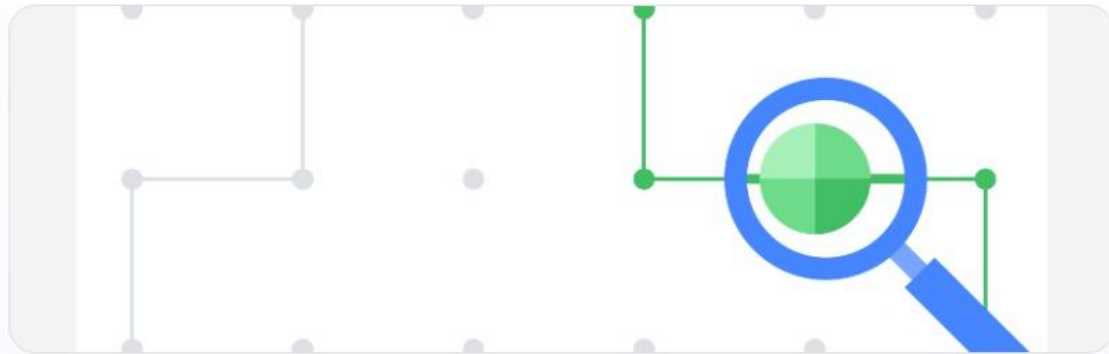
Agent preview



Travel Agent 08:31 PM

Welcome to Travel Agent

Plan. Book. Explore. All with your AI Travel Buddy!



Type something...



RESULTS

Agent preview



You: 08:53 PM

Give me 5 day travel to delhi



Travel Agent 08:53 PM

Here is a 5-day travel plan to Delhi:

Day 1: Arrival in Delhi and exploration of the city

- Visit the Red Fort, a UNESCO World Heritage Site
- Explore the Chandni Chowk market, one of the oldest and busiest markets in India
- Try some street food at Jama Masjid, one of the largest mosques in India

Day 2: Sightseeing in Delhi

- Visit the Qutub Minar, a UNESCO World Heritage Site and one of the tallest minarets in India
- Explore the Humayun's Tomb, a beautiful example of Mughal architecture
- Visit the Lotus Temple, a stunning example of modern architecture

Day 3: Day trip to Agra

- Visit the Taj Mahal, one of the Seven Wonders of the World and a UNESCO World Heritage Site
- Explore the Agra Fort, another UNESCO World Heritage Site and former residence of Mughal emperors
- Return to Delhi in the evening and enjoy dinner at a local restaurant.

Day 4: Exploration of Old Delhi

Visit Gandhi Smriti Explore Dilli Haat sound light show. End your day with serenity by visiting Akshardham temple.

Day 5 : Shopping And Departure

Spend morning shopping for souvenirs or exploring local markets like Sarojini Nagar or Karol Bagh. Depart from New Delhi railway station/Airport as per schedule.

This itinerary provides an overview on how you can spend five days traveling around New Delhi covering all major attractions along with a few offbeat ones too!

► How did I get this answer?

Type something...



RESULTS

AR You: 08:55 PM

Can you give me details about flight tickets


 Travel Agent 08:55 PM

You can find cheap flights to Delhi on websites like Expedia, Skyscanner, and Google Flights. The prices for flight tickets to Delhi vary depending on the airline, time of year, and how far in advance you book. You can expect to pay anywhere from \$49 to over \$1,000 for a round-trip ticket. It's always a good idea to compare prices across multiple airlines and book in advance to get the best deal. Additionally, you can use travel agencies like MakeMyTrip or Vietnam Airlines to book your flights.

► How did I get this answer?

AR You: 08:55 PM

I want to book a ticket from Bhubaneshwar, India

 Travel Agent 08:55 PM

The current price for a flight ticket from Bhubaneshwar to Delhi is around ₹4,976 per passenger for a one-way flight with Air India Express. You can book your tickets on websites like Skyscanner, MakeMyTrip, or Goibibo. Additionally, you can check the prices and availability on airlines' official websites like IndiGo or Air India. It's always a good idea to compare prices across multiple sources and book in advance to get the best deal.

► How did I get this answer?



RESULTS

Deployed AI Agent

[Deployment spaces](#) / [Travel_Agent](#) / [Travel Agent 1](#) /

Travel Agent 1

✓ Deployed

Online

API reference

Test

Preview

New chat +

You 09:39 PM

modify with time and flight details

Travel Agent 1 09:39 PM

Here is a 5-day travel plan from Bhubaneswar to Delhi with time and flight details:

Day 1: Bhubaneswar to Delhi

- 10:00 AM: Check-in at Bhubaneswar Airport for IndiGo flight 6E-201 departing at 12:00 PM
- 2:00 PM: Arrive at Delhi Airport
- 3:00 PM: Check-in at hotel and freshen up
- 5:00 PM: Visit the India Gate
- 8:00 PM: Dinner at Connaught Place

Day 2: Delhi

- 9:00 AM: Breakfast at hotel
- 10:00 AM: Visit the Red Fort
- 1:00 PM: Lunch at a local restaurant
- 2:30 PM: Visit the Qutub Minar

Type something...

CONCLUSION

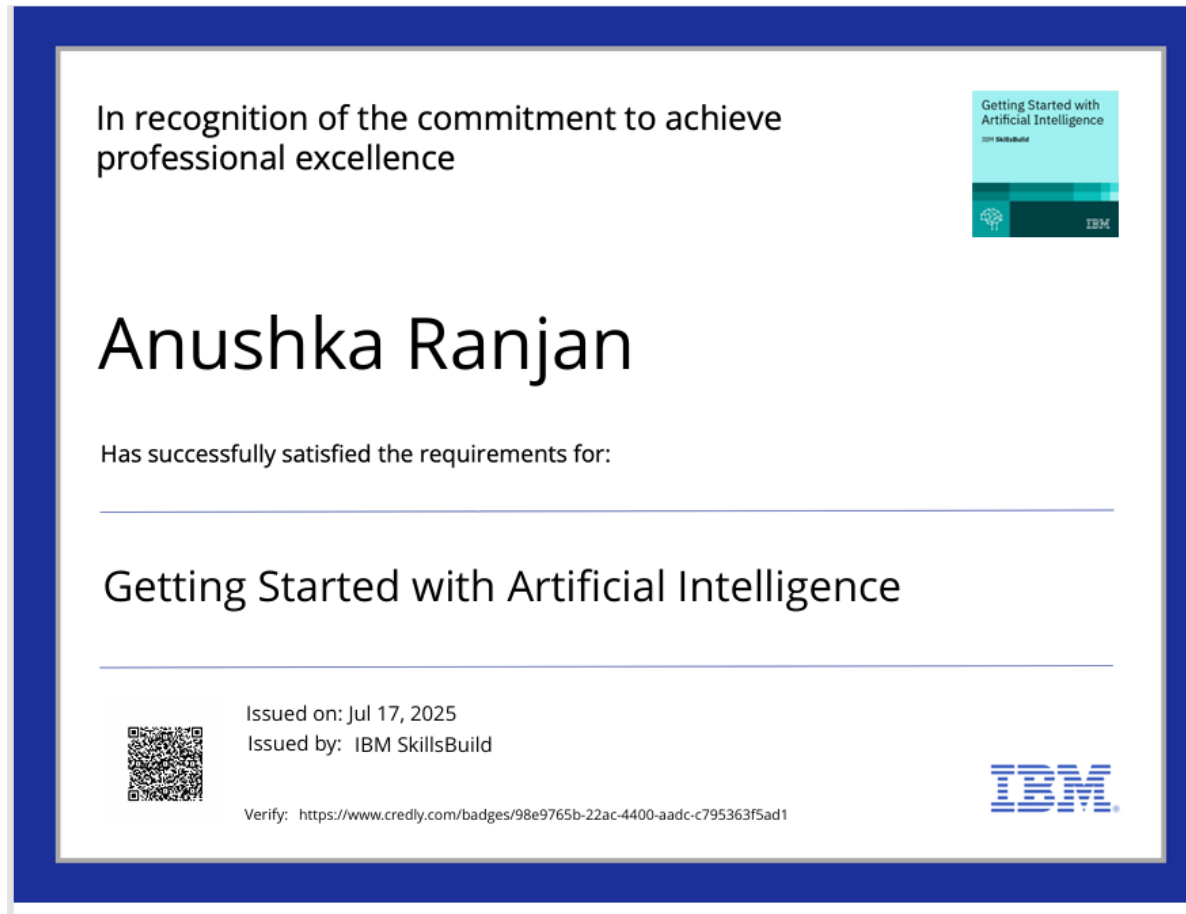
- ◆ The Travel Planner Agent simplifies and personalizes trip planning using AI.
- ◆ Built with IBM Cloud, watsonx.ai, and the Granite-3-3-8b-instruct model.
- ◆ Successfully deployed to assist users with destination discovery, itinerary creation, real-time updates, and bookings.
- ◆ Makes travel planning faster, smarter, and more accessible.

FUTURE SCOPE

- Integrate live booking for flights & hotels
- Add voice-based travel planning
- Launch mobile app version
- Support multiple languages
- Enable group trip collaboration
- Offer budget-smart & eco-friendly suggestions

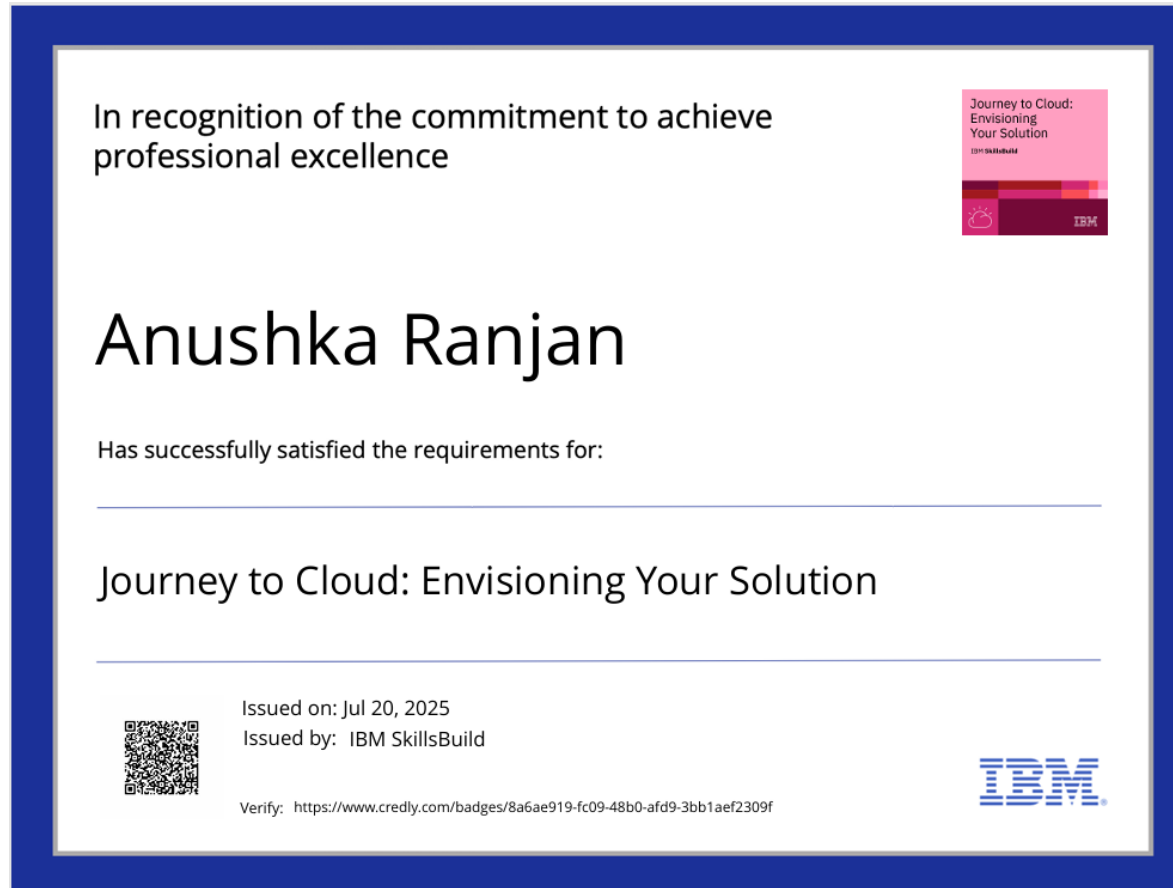
IBM CERTIFICATIONS

- Screenshot/ credly certificate(getting started with AI)



IBM CERTIFICATIONS


Journey to the cloud



IBM CERTIFICATIONS

RAG LAB

IBM SkillsBuild Completion Certificate



This certificate is presented to

Anushka Ranjan

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

GITHUB LINK

- GITHUB LINK :-
- <https://github.com/AnushkaRanjan159/Travel-AI-Agent/blob/main/README.md>



THANK YOU