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# IBM 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**

# PROBLEM STATEMENT

## Travel Planner Agent

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- Solution is a multi-layered, AI-driven platform designed to be a seamless, end-to-end travel planning assistant. It will integrate cutting-edge AI technologies with a user-friendly interface to transform the complex process of travel planning into a personalized and enjoyable experience.

1. Core AI Engine and Data Integration
2. User Interface and Interaction
3. Proactive Assistance and On-the-Go Optimization
4. Business Model and Monetization

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# 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

- Anticipatory Assistance and Proactive Problem Solving
- Conversational, Multimodal Trip Design
- Hyper-Personalized Itineraries and Recommendations
- Your Personal, On-the-Go Concierge
- Seamless and Secure Biometric Check-ins

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## **END USERS**

1. Individual Travelers
2. Business Travelers
3. Travel Agencies and Tour Operators
4. Airlines, Hotels, and Hospitality Companies

# RESULTS

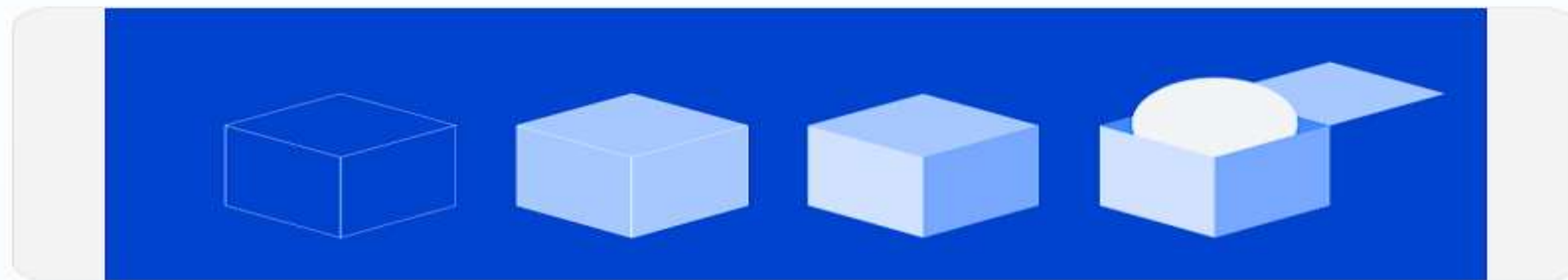
## Agent preview



Travel AI Agent 01:00 AM

**Welcome to Travel AI Agent**

An intelligent travel assistant on IBM Cloud that leverages AI to personalize itineraries.



Type something...





# RESULTS

## Agent preview



You: 01:02 AM

give me 5 days plan from lucknow to chennai



Travel AI Agent 01:02 AM

Here are some travel options from Lucknow to Chennai over a 5-day period:

1. **Flights:** There are multiple airlines offering flights from Lucknow to Chennai. The fastest flight takes 2 hours and 30 minutes. It's generally cheaper to book your flight 15 to 30 days in advance. You can check the latest prices and schedules on travel websites like Skyscanner, Google Flights, Makemytrip, and Goibibo.
2. **Trains:** Indian Railways is another option. You can check the availability and schedule of trains on the IRCTC Tourism website.
3. **Self-drive car rental:** Uber Intercity offers self-drive car rental services for intercity travel. You can plan your trip and get a price estimate on their website.
4. **Tour Packages:** If you prefer a more organized trip, you can opt for tour packages from various travel websites. These often include accommodation, transport, and sightseeing.

# RESULTS

## Agent preview



You: 01:06 AM

I have my exams after my trip.. How can I prepare?



Travel AI Agent 01:06 AM

Here are some strategies to help you prepare for your exams after your trip:

1. **Create a Study Schedule:** Start by listing all the topics you need to cover. Then, allocate specific time slots for each subject based on your understanding and difficulty level. Prioritize your weaker areas.
2. **Review Notes and Important Topics:** Go through your class notes, textbooks, and any other resources you have. Focus on understanding the key concepts and important topics.
3. **Practice Past Papers and Sample Questions:** This will help you get familiar with the exam pattern and the type of questions asked. It also helps in time management during the actual exam.
4. **Study Groups:** Form or join a study group. Discussing topics with peers can clarify doubts and provide different perspectives.
5. **Take Regular Breaks:** Studying for long hours without breaks can lead to burnout. Follow the 20-20-20 rule: every 20 minutes, look at something 20 feet away for 20 seconds.

# RESULTS

## Deployed AI Agent

Deployment spaces / y / Travel AI Agent /

Travel AI Agent Deployed Online


API reference Test **Preview**

New chat +

Travel AI Agent 02:47 PM

Welcome to Travel AI Agent

Change this description to reflect your particular agent



Type something...

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## CONCLUSION

- The travel AI agent is evolving from a simple booking tool into a proactive, intelligent travel companion. It no longer just finds flights and hotels; it anticipates needs, manages disruptions, and curates experiences that are deeply personal and relevant.
- The ultimate goal is not to replace the human element of travel but to enhance it. By automating the logistical burdens of travel—such as rebooking flights during delays or handling complex itineraries—the AI agent frees up travelers to focus on the joy and discovery of their journey.
- AI agents are the key to unlocking true hyper-personalization in travel. By analyzing vast amounts of data, they can move beyond generic recommendations to offer a unique, bespoke trip for every individual, creating a sense of being truly seen and understood by the technology.
- The user experience is becoming more natural and conversational. Travelers can interact with AI agents using voice, text, and even images to plan and manage their trips, making the process feel less like a transaction and more like a collaboration with a knowledgeable friend.

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## GITHUB LINK

<https://github.com/Maan-netizen/IBM.git>

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# FUTURE SCOPE

- Hyper-Personalized and Dynamic Itineraries
- Proactive Disruption Management and Autonomous Rebooking
- Multi-Modal and Conversational Interfaces
- Seamless Integration and All-in-One Platforms
- Enhanced Post-Booking Support

# IBM CERTIFICATIONS

In recognition of the commitment to achieve  
professional excellence



Manvardhan Tripathi Tripathi

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 29, 2025  
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/2292fe3b-d53f-42f9-ac71-205374310a79>



IBM **SkillsBuild**

Completion Certificate



This certificate is presented to  
**Manvardhan Tripathi**

for the completion of

**Lab: Retrieval Augmented Generation with  
LangChain**

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

**Completion date:** 19 Jul 2025 (GMT)

**Learning hours:** 20 mins





**THANK YOU**