
IBM INTERNSHIP PROJECT

TRAVEL PLANNER 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

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.

Solutions: 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.

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

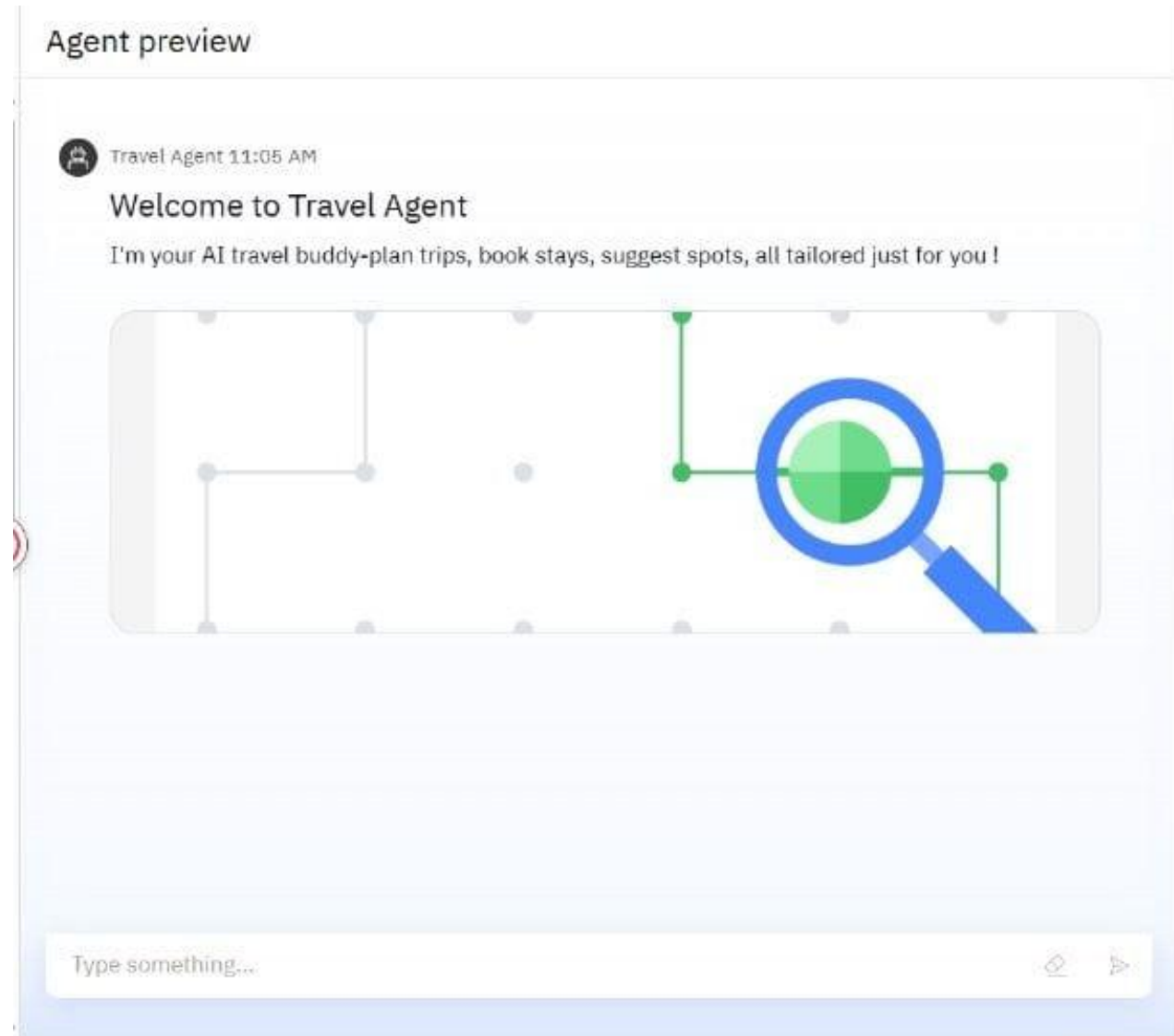
WOW FACTORS

1. **Instant Itinerary Generation** tailored to user preferences, budget, and travel style.
2. **Real-time local recommendations** for food, attractions, and events using location awareness.
3. **Smart travel planning** with dynamic route optimization and weather-aware scheduling.
4. **Language and cultural assistant** for smooth communication and local etiquette tips.
5. **Budget tracking and deal alerts** to help users save while maximizing experiences.

END USERS

- Frequent travelers
- First-time or infrequent travelers
- Solo travelers and digital nomads
- Budget-conscious travelers
- Travel agencies and tour operators
- Corporate travel managers
- Students and study-abroad travelers

RESULTS



RESULTS

Agent preview



You: 11:17 AM

give me 5 days travel plan from goa to chennai



Travel Agent 11:17 AM

Here's a 5-day travel plan from Goa to Chennai:

Day 1: Departure from Goa

- Morning: Depart from Goa by bus or flight to Chennai. The journey by road is approximately 2,200 km and takes around 36-40 hours, while a flight takes about 1.5 hours.
- Evening: Check-in at your hotel in Chennai and rest after your journey.

Day 2: Explore Chennai

- Morning: Start your day with a visit to Kapaleeshwarar Temple, one of the oldest and most revered temples in Chennai.
- Afternoon: Head to Marina Beach, one of the longest urban beaches in the world. Enjoy a stroll along the beach and have lunch at a local seafood restaurant.
- Evening: Visit the Government Museum to appreciate Chennai's rich history and culture.

Day 3: Heritage and Culture

Type something...



RESULTS

Agent preview

booking flights or buses, I can assist you with that as well. Let me know if you need help with that or any other travel-related queries.

► How did I get this answer?



You: 11:17 AM

Book flight ticket



Travel Agent 11:17 AM

I'm sorry for the confusion, but as an AI, I don't have the capability to book flight tickets directly. However, I can guide you on how to do it.

You can use online travel agencies like Expedia, Kayak, or Skyscanner to find and book your flight. Here's a general process:

1. Visit the website of your chosen travel agency.
2. Enter your departure city (Goa), destination city (Chennai), and travel dates.
3. The site will provide a list of available flights. You can filter these based on your preferences (direct flights, airlines, price, etc.).
4. Once you've selected a flight, proceed to booking. You'll need to provide passenger details and payment information.
5. After successful payment, you'll receive a confirmation email with your e-ticket.

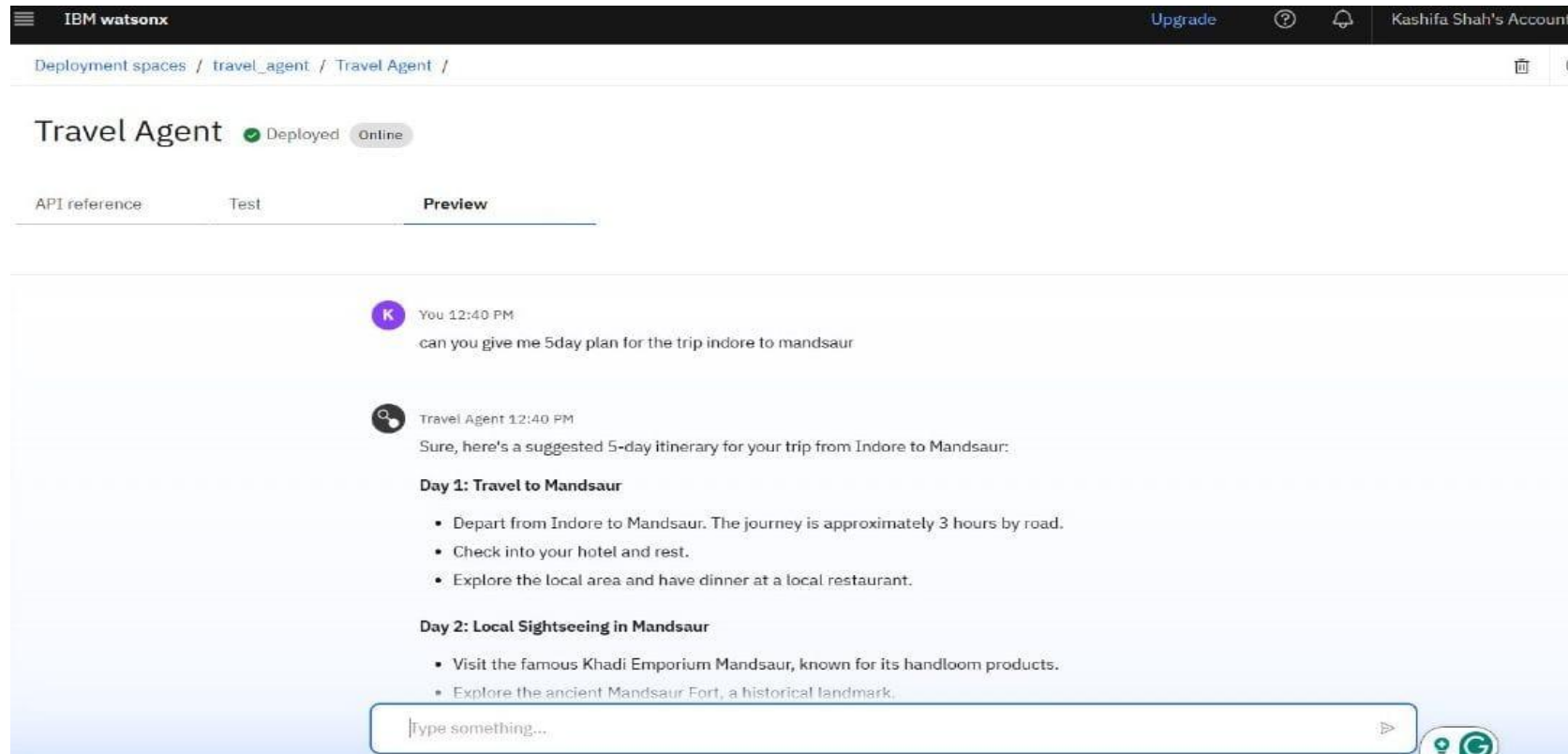
If you need help finding the best flights based on your preferred dates, budget, or airlines, I can

Type something...



RESULTS

Deployed AI Agent



The screenshot displays the IBM watsonx user interface. At the top, a navigation bar includes the 'IBM watsonx' logo, an 'Upgrade' button, and a user profile for 'Kashifa Shah's Account'. Below this, a breadcrumb trail shows the path: 'Deployment spaces / travel_agent / Travel Agent /'. The main section is titled 'Travel Agent' and features a green 'Deployed' status indicator and an 'Online' button. Three tabs are visible: 'API reference', 'Test', and 'Preview', with the 'Preview' tab currently selected. The chat window shows a conversation where a user asks for a 5-day plan for a trip from Indore to Mandsaur. The AI agent responds with a detailed itinerary for two days.

Travel Agent Deployed Online

API reference Test **Preview**

You 12:40 PM
can you give me 5day plan for the trip indore to mandsaur

Travel Agent 12:40 PM
Sure, here's a suggested 5-day itinerary for your trip from Indore to Mandsaur:

Day 1: Travel to Mandsaur

- Depart from Indore to Mandsaur. The journey is approximately 3 hours by road.
- Check into your hotel and rest.
- Explore the local area and have dinner at a local restaurant.

Day 2: Local Sightseeing in Mandsaur

- Visit the famous Khadi Emporium Mandsaur, known for its handloom products.
- Explore the ancient Mandsaur Fort, a historical landmark.

Type something...

CONCLUSION

- The Travel AI Agent streamlines trip planning through intelligent automation and personalization.
- It enhances user experience with real-time recommendations, itinerary generation, and budget optimization.
- It caters to diverse user groups, from solo travelers to corporate planners.
- It reduces the time, stress, and complexity involved in organizing travel.
- The agent demonstrates how AI can transform the travel industry by making travel more accessible, efficient, and enjoyable.

FUTURE SCOPE

- Integration with AR/VR for virtual destination previews
- Voice assistant and multilingual support
- Real-time travel companion features
- Hyper-personalization through AI learning
- Integration with airlines, hotels, and local service providers

IBM CERTIFICATIONS

Getting started with Ai

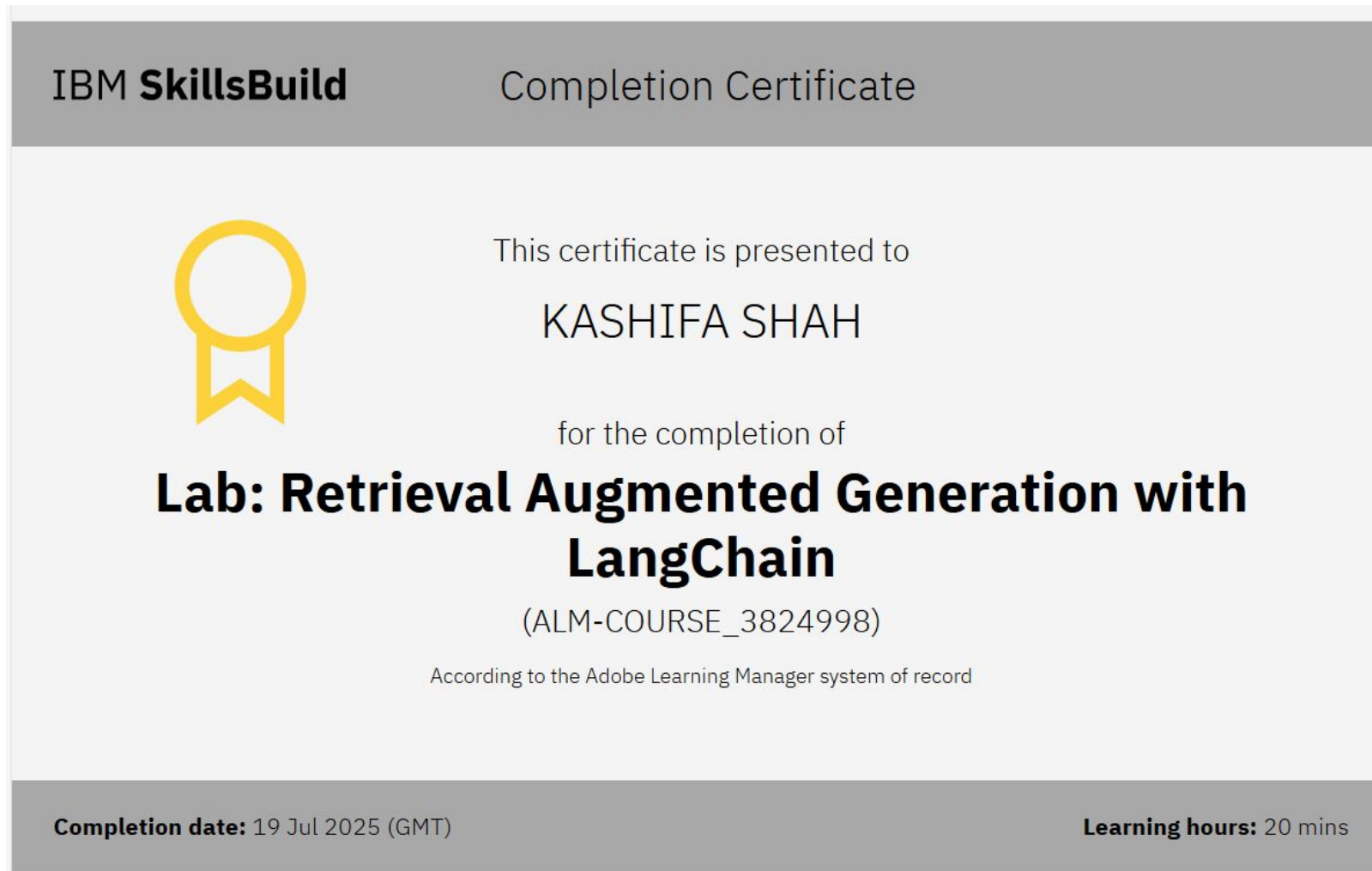


IBM CERTIFICATIONS

Journey to cloud



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GITHUB LINK

- Github Link : <https://github.com/kashifashah1/Travel-AI-Agent>



THANK YOU