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# IBM AICTE 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

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# PROBLEM STATEMENT

Travel planning can be overwhelming and time-consuming. Travelers need detailed, day-wise itineraries including activities, dining, transport, and accommodation—personalized according to dates, budget, and interests. The Travel Planner Agent addresses this by leveraging AI to generate adaptable, user-centered trip plans, saving time and improving the overall travel experience.

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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: For orchestrating the agent workflow
- IBM Cloud Watsonx AI Runtime: For scalable deployment
- IBM Cloud Agent Lab: For agent prototyping and management
- IBM Granite Foundation Model: For advanced AI/LLM capabilities

# WOW FACTORS


- **Personalized, adaptive travel itineraries customized for each user**—considering their budget, dates, interests, and group size for a perfect fit.
- **Detailed day-wise scheduling**—breaking each day into morning, afternoon, and evening, with specific recommended activities, timings, and logical routing.
- Integration of real-time data such as weather, local festivals/events, and the latest transport availability, ensuring itineraries are practical and up-to-date.
- **Interactive, conversational experience:** Users can adjust preferences or dates on the fly and receive updated plans instantly.
- **Comprehensive recommendations:** Not just top attractions, but also local hidden gems, eateries, hotels, and travel tips unique to each destination.
- **Built-in safety and cultural guidance:** Suggestions include local customs, precautions, and seasonal advice to maximize enjoyment and minimize risk.
- **Multilingual, multi-modal flexibility:** The agent is designed for future support of voice, text, and different languages, making it accessible worldwide.
- **Extensible and modular:** Ready for integration with external booking and payment platforms for end-to-end travel planning.



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## END USERS

- Independent travelers and families planning personal vacations.
- Travel agencies looking to automate and enhance itinerary generation
- Corporate event and offsite organizers.
- Tourism boards aiming for interactive destination promotion.
- Academic or educational tour planners managing group travel.

# RESULTS

 IBM watsonx


Upgrade Rohit Patil's Account ▾ Dallas ▾ RP

Deployment spaces / Crafted Journeys - Travel Agent / watsonx Agent /      

## watsonx Agent ✓ Deployed Online


API referenceTestPreview


New chat +

 watsonx Agent 06:16 PM

Welcome to watsonx Agent

Change this description to reflect your particular agent




Type something... 




# RESULTS

### Agent preview

 You: 06:18 PM

one day trip in mumbai

 Crafted Journeys 06:18 PM

## One-Day Trip Itinerary in Mumbai

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### Morning

**Activity:** Start your day with a visit to the iconic Gateway of India. This historic monument is a great spot for some early morning photographs with less crowd.

**Time Slot:** 8:00 AM - 9:30 AM

**Location:** Gateway of India, Colaba, Mumbai



**Nearby Coffee Shop:** You can grab a cup of filter coffee or masala chai at the nearby Colaba Causeway Market.

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**Activity:** Head to Chhatrapati Shivaji Maharaj Vastu Sangrahalaya (formerly Prince of Wales Museum) for a dose of culture and history.

**Time Slot:** 10:00 AM - 12:30 PM

**Location:** Chhatrapati Shivaji Maharaj Vastu Sangrahalaya, Mumbai



# RESULTS

## Deployed AI Agent

The screenshot displays the IBM watsonx interface for a deployed AI agent. The top navigation bar includes the IBM watsonx logo, an 'Upgrade' button, a help icon, a notification bell, and user account information for 'Rohit Patil's Account' in 'Dallas'. The breadcrumb trail indicates the current location: 'Deployment spaces / Crafted Journeys - Travel Agent / watsonx Agent /'. The main heading is 'Crafted Journeys - Travel Agent', which is marked as 'Deployed' with a green checkmark and 'Online' in a grey badge. Below the heading are three tabs: 'API reference', 'Test', and 'Preview', with the 'Preview' tab being the active selection. A 'New chat +' button is located on the right side of the chat area. The chat history shows a user message at 06:26 PM: 'one day trip plan for national park in mumbai'. The agent's response, also at 06:26 PM, provides a one-day trip plan for Sanjay Gandhi National Park in Mumbai, including the following steps:

1. Start your day early and head to the park.
2. Visit the Kanheri Caves, a group of ancient Buddhist caves.

# CONCLUSION

- The agent simplifies and personalizes the entire travel planning process, allowing users to generate detailed, day-wise itineraries effortlessly.
- By leveraging IBM's cloud-based AI and Retrieval-Augmented Generation, it delivers accurate, up-to-date, and context-aware recommendations for every trip.
- Ultimately, the Travel Planner Agent saves users time, reduces planning stress, and ensures a more enjoyable and well-organized travel experience.

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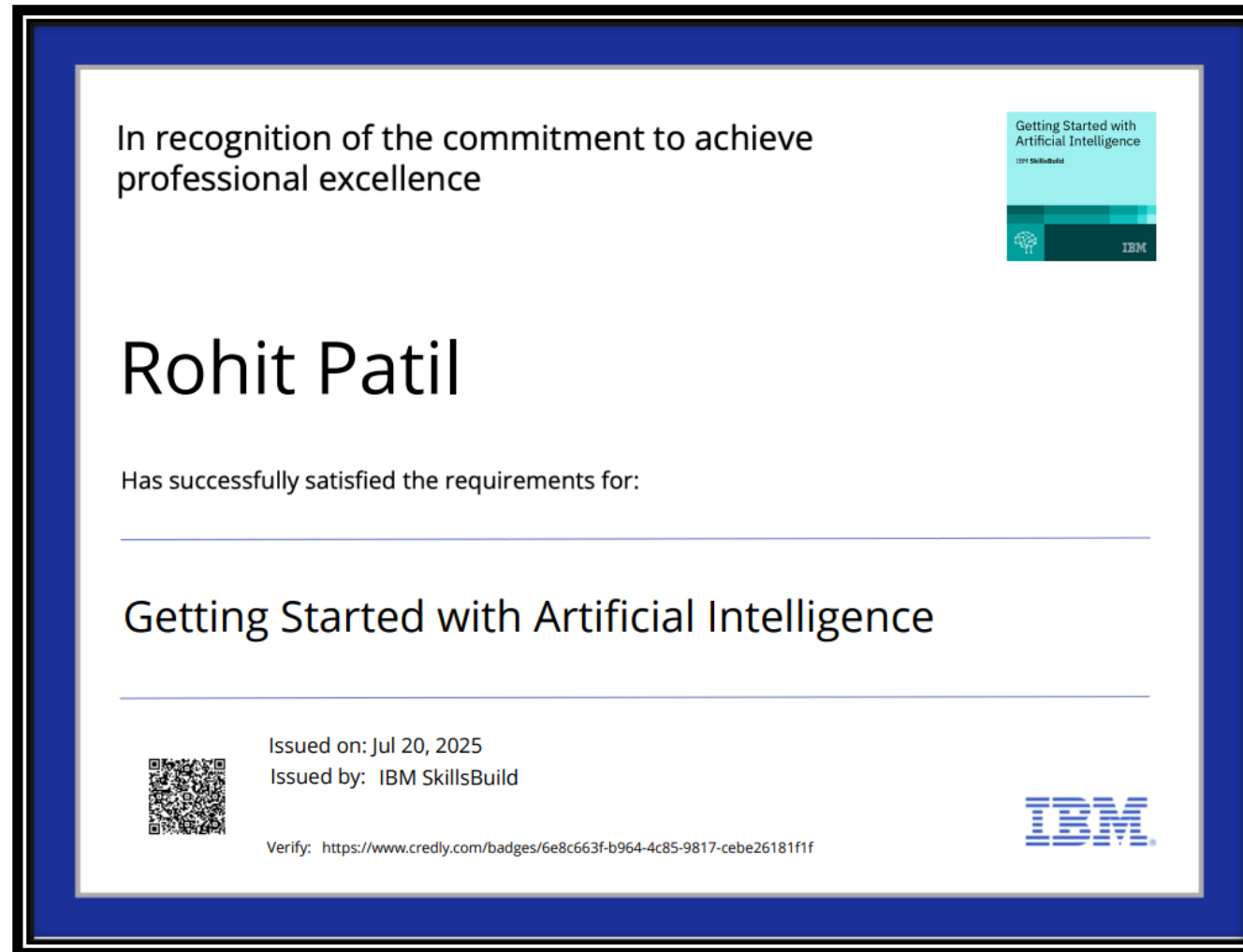
# FUTURE SCOPE

- Live integration with booking and reservation APIs for hotels, flights, and experiences.
- Multi-modal expansion: support for travel photos, scanned tickets, and spoken input/output.
- Smarter, self-improving recommendations using user feedback (reinforcement learning).
- Instant notifications of weather events, closures, or delays to update plans proactively.
- Collaboration: Dedicated features for planning and coordinating group trips, shared schedules, and custom requirements.

## GITHUB LINK

- Travel agent project link - [https://github.com/MasterRohitPatil/Travel\\_Agent-Ppt](https://github.com/MasterRohitPatil/Travel_Agent-Ppt)

# IBM CERTIFICATIONS



7/24/25, 6:35 PM

Completion Certificate | SkillsBuild

**IBM SkillsBuild**

Completion Certificate



This certificate is presented to

Rohit Patil

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

In recognition of the commitment to achieve  
professional excellence



# Rohit Patil

Has successfully satisfied the requirements for:

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## Journey to Cloud: Envisioning Your Solution

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Issued on: Jul 20, 2025  
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/edc439df-2655-4e4f-b591-b2689da08bb7>







**THANK YOU**