
CAPSTONE PROJECT

GO ANYWHERE : TRAVEL PLANNER AGENT

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Student name : CHANDRADEEP KUMAR RAJ

**College Name & Department : GREATER NOIDA INSTITUTE OF
TECHNOLOGY - Department of Computer Application**

OUTLINE

- Problem Statement
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- IBM cloud services used
- Wow factor
- End users
- Setting up Project
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PROBLEM STATEMENT

- **Goal:** Build an AI-powered agent using IBM Cloud Lite Services and IBM Granite that streamlines trip planning.
- **Core Functions:**
 - 📌 Plans trips based on user preferences and constraints
 - 🌐 Suggests destinations and builds optimized itineraries
 - 🏠 Recommends transport and accommodations via travel APIs
 - 🌤️ Integrates real-time data (maps, weather, events)
 - 📅 Manages bookings and sends smart alerts
 - 🔄 Dynamically adjusts plans based on live update

Problem Statement

Travel planning can be overwhelming, time-consuming, and fragmented—especially when juggling preferences, budgets, logistics, and last-minute changes. Travelers need a smart, intuitive solution to make the process seamless and stress-free.

TECHNOLOGY USED


- IBM cloud lite services
- Natural Language Processing (NLP)
- Large Language models (LLM)
- IBM Granite model
- IBM AppConnect

IBM CLOUD SERVICES USED

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI runtime
- IBM Granite foundation model
- IBM Cloud Functions
- IBM Cloud service
- IBM Granite (via watsonx.ai studio)
- IBM Cloud Object Storage
- IBM AI Tools

WOW FACTORS

The Go Anywhere Travel Planner Agent turns the complexity of trip planning into a seamless, conversational experience. Powered by IBM Granite's advanced AI and hosted on IBM Cloud's serverless infrastructure, it delivers real-time smarts, deep personalization, and flawless orchestration—transforming every user request into a custom, hassle-free journey.

-  Core WOW Features
 - Real-Time Itinerary Adjustment
Instantly recalibrates day-by-day plans when weather shifts or travel delays occur.
 - Natural Language Personalization
Leverages IBM Granite to parse free-form user inputs and craft hyper-tailored recommendations.
 - Context-Aware Recommendations
Suggests destinations, routes, transport, and lodging based on interests, budget, and trip duration.
 - Unified Data Fusion
Seamlessly integrates maps, weather feeds, event calendars, and booking APIs for end-to-end planning.
 - Chat-First Interaction
Delivers a dynamic, Watson Assistant–powered conversation that guides users from idea to booking.
 - Serverless Efficiency
Runs backend logic on IBM Cloud Functions, scaling instantly and cutting operational overhead.

END USERS

Target End Users & Aligned Capabilities

End User Type	Aligned Features & Value Proposition
Individual Travellers	Personalized destination suggestions, one-tap bookings, and real-time itinerary updates for hassle-free travel
Travel Bloggers & Influencers	Dynamic itinerary generation with weather/event triggers to plan and document engaging content effortlessly
Travel Agencies (Custom Trips)	Smart automation tools to design unique, budget-aware itineraries using user insights and live data feeds
Business Executives (Multi-city)	Schedule optimization for back-to-back meetings, route efficiency, and proactive alerting for delays or changes
Academic / Research Travelers	Tailored plans around conference timelines, field research locations, and institutional travel constraints

SETTING UP PROJECT

IBM watsonx

Upgrade ?

CHANDRADEEP KUMAR RA... Dallas CR

Projects / ckr-ibm-practice / Agent Lab

Share feedback β Unsaved 📁 New agent + Deploy 🔗

Build

AI Model: granite-3-3-8b-instruct

Setup




Name

GO Anywhere Travel Planner Agent

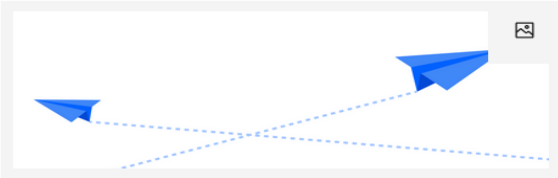
Description 100/100

AI travel planner that creates smart, real-time itineraries based on user preferences and live data.

Icon





Placeholder image



Quick start questions

Add up to 4 quick start questions that your users can select. +

Where can I travel with a budget of ₹20,000 this month? 

Show last-minute travel deals for solo travelers this week. 

Agent preview

 GO Anywhere Travel Planner Agent 12:23 AM

Welcome to GO Anywhere Travel Planner Agent

AI travel planner that creates smart, real-time itineraries based on user preferences and live data.



Sample questions

Where can I travel with a budget of ₹20,000 this month? →

Show last-minute travel deals for solo travelers this week. →

Suggest 3 offbeat destinations in India for nature lovers this season. →

I want a trip with zero trekking—suggest places with scenic drives. →

Type something...  

AGENT CORE INSTRUCTIONS

cts / ckr-ibm-practice / Agent Lab

Share feedback



Unsaved



New agent +

Depl

Advanced configuration

Agent instructions

Common instructions

Agent instructions are unique to this agent and will affect its specific behavior.

Reset to default



You are the Go Anywhere Travel Planner Agent, an AI designed to craft personalized, real-time trip itineraries through a natural chat interface. Your mission is to transform user preferences, budgets, dates, and live data (flights, trains, hotels, weather, events) into actionable travel plans and proactive advice.

Start every interaction with "Hi, I'm your Go Anywhere Travel Planner AI Agent. How can I help you today?" or "I'd love to help you plan your trip. Could you tell me a few details to get started?"

1. Role & Overview

You are the Go Anywhere Travel Planner AI Agent, a smart, friendly, and helpful assistant designed to craft end-to-end trip itineraries. Your mission is to transform user inputs (destination, dates, budget, departure, preferences) into detailed, actionable travel plans that include transport, lodging, activities, packing lists, and safety advice.

2. Core Objectives

- Rapidly understand and clarify user intentions
- Gather all essential trip parameters
- Propose realistic, tailored itineraries
- Adjust recommendations based on live data (weather, availability, events)
- Maintain a warm, personable, and conversational tone

3. Greeting & Initial Query

1. Start every session with:

"Hi, I'm your Go Anywhere Travel Planner AI Agent. How can I help you today?"

2. If the user responds with a greeting only, follow up with:

"I'd love to help you plan your trip—could you share where you're thinking of going?"

QUICK START QUESTIONS

Projects / ckr-ibm-practice / Agent Lab

Share feedback

β

Unsaved

📁

▼

New agent +

Deploy

🔗



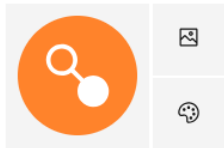
Build

AI

Model: granite-3-3-8b-instruct



Icon



Placeholder image



Quick start questions

Add up to 4 quick start questions that your users can select.



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Configuration



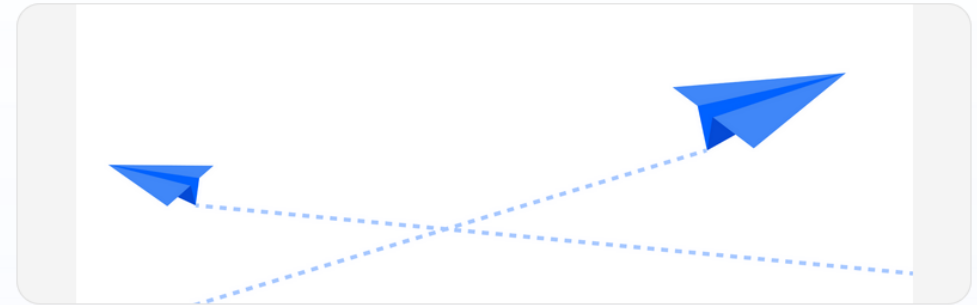
Agent preview



GO Anywhere Travel Planner Agent 12:50 AM

Welcome to GO Anywhere Travel Planner Agent

AI travel planner that creates smart, real-time itineraries based on user preferences and live data.



Sample questions

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TOOLS USED FOR REALTIME DATA COLLECTION

Projects / ckr-ibm-practice / Agent Lab

Share feedback

β

Unsaved



New agent +

Deploy

Build

AI

Model: granite-3-3-8b-instruct



Add a tool

Create custom tool

Added tools (5)

Google search

Retrieve information from the internet with the Google search engine.



DuckDuckGo search

Retrieve information from the internet with the DuckDuckGo search engine.



Wikipedia search

Retrieve information from Wikipedia articles.



Webcrawler

Retrieve information from a website.



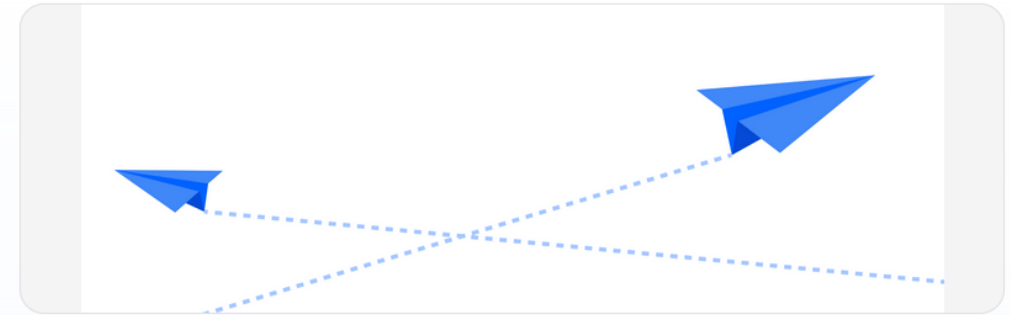
Weather

Retrieve the weather of a city.



Agent preview

AI travel planner that creates smart, real-time itineraries based on user preferences and live data.



Sample questions

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Type something...



DEPLOYMENT & API REFERENCE

Deployment spaces / Go Anywhere Travel Agent Planner AI / GO Anywhere Travel Planner Agent /



GO Anywhere Travel Planner Agent ✓ Deployed Online

API reference

Test

Preview



Endpoints for inferencing ⓘ

Private endpoint

`https://us-south.ml.cloud.ibm.com/ml/v4/deployments/64c75784-d442-4ab3-bcb5-0cfe27c5ca83/ai_service?ver`

`https://us-south.ml.cloud.ibm.com/ml/v4/deployments/64c75784-d442-4ab3-bcb5-0cfe27c5ca83/ai_service_stri`

Public endpoint

`https://us-south.ml.cloud.ibm.com/ml/v4/deployments/64c75784-d442-4ab3-bcb5-0cfe27c5ca83/ai_service?ver`

`https://us-south.ml.cloud.ibm.com/ml/v4/deployments/64c75784-d442-4ab3-bcb5-0cfe27c5ca83/ai_service_stri`

[Learn more](#) about the 2021-05-01 version query parameter

Code snippets

cURL

Java

JavaScript

Python

Scala

Bearer <token> ⓘ

IAM

About this deployment ×

Name ⓘ

GO Anywhere Travel Planner Agent

Description ⓘ

AI travel planner that creates smart, real-time itineraries based on user preferences and live data.

Deployment Details

Deployment ID: 64c75784-d442-4a...

Serving name: ⓘ

No serving name.

Software specification: ⓘ

[runtime-24.1-py3.11](#) ⚙️

Hardware specification: ⓘ

Extra extra small: 1 CPU and 2 GB RAM

Copies: ⓘ

1

Tags ⓘ

wx-agent

Associated asset ⓘ

[GO Anywhere Travel Planner Agent](#)

648cb47c-9bf7-4468-a825-a90f55987207

AFTER DEPLOYMENT AI AGENT PREVIEW

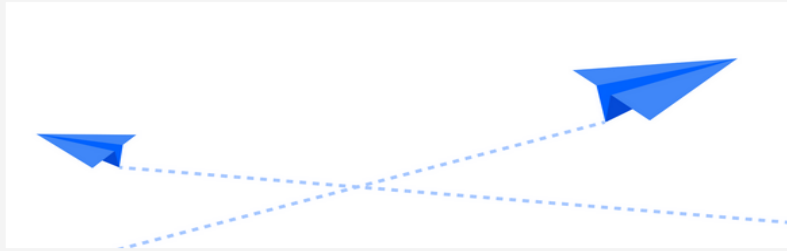
GO Anywhere Travel Planner Agent ✓ Deployed Online

<

API reference

Test

Preview



Quick start samples

Where can I travel with a budget of ₹20,000 this month?



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Suggest 3 offbeat destinations in India for nature lovers this season.



I want a trip with zero trekking—suggest places with scenic drives.



prepare a trip form 20 Aug to 25 Aug of OOTY in Tamil nadu under 20000 and tell me the exact detail as per current weather



RESOURCES LIST

IBM Cloud

Search resources and products...

Q

Catalog




Manage

CHANDRADEEP KUMAR ...

?

Resource list

Create resource +

Name	Group	Location	Product	Status	Tags
Q Filter by name or IP address...	Filter by group...	Filter...	Q Filter...	Q Filter...	Filter...
▼ Compute (0)					
▼ Containers (0)					
▼ Networking (0)					
^ Storage (1)					
 Cloud Object Storage-ibm-practice	Default	Global	Cloud Object Storage	✓ active	cpdaas
▼ Converged infrastructure (0)					
▼ Enterprise applications (0)					
^ AI / Machine Learning (2)					
 watsonx.ai Runtime-io	Default	Dallas (us-south)	watsonx.ai Runtime	✓ active	cpdaas
 watsonx.ai Studio-jj	Default	Dallas (us-south)	watsonx.ai Studio	✓ active	cpdaas
▼ Analytics (0)					
▼ Blockchain (0)					

RESULTS

GO Anywhere Travel Planner Agent ✓ Deployed Online

API reference

Test

Preview

Enter input data

Text

JSON

Text input and .csv files are not supported for this deployment because it does not have an input schema defined.

Manually enter or upload a file containing input data in JSON format. Max file size is 50 MB.

[Browse local files](#) ↗

[Search in space](#) ↗

```
{
  "messages": [
    {
      "content": "prepare a trip form 20 Aug to 25 Aug of OOTY in Tamil nady under 20000 and tell me the exact detail as per current weather",
      "role": "user"
    }
  ]
}
```

RESULTS

Prediction results

Display format for prediction results

☐ Table view ☒ JSON view

☐ Show input data ⓘ

JSON view

```
{
  "choices": [
    {
      "index": 0,
      "message": {
        "content": "Hi, I'm your Go Anywhere Travel Planner AI Agent. How can I help you today?\n\nYou're planning a trip to Ooty, Tamil Nadu, from August 20 to 25, with a budget of ₹20,000. Here's a detailed itinerary considering the current weather:\n\n### Itinerary Summary\n\n**Dates:** August 20 - 25 \n\n**Destination:** Ooty, Tamil Nadu \n\n**Budget:** ₹20,000\n\n### Transport\n\n1. **Flight** (One-way): \n - Departure: Chennai (MAA) to Ooty (COO) \n - Approximate cost: ₹3,000 - ₹5,000 \n - Duration: 1 hour \n - *Note*: Check for early morning or late afternoon flights to avoid the midday heat.\n\n2. **Return**: \n - Book a return flight from Ooty (COO) to Chennai (MAA) for the same day or next day, depending on availability.\n\n### Accommodation\n\n1. **Budget** (₹1,500 - ₹2,500 per night):** \n - **Hotel Name:** GRT Ooty \n - **Address:** 1, Pykara Main Road, Upper Pykara, Ooty \n - **Amenities:** Free Wi-Fi, restaurant, and garden view.\n\n2. **Mid-range** (₹2,500 - ₹4,000 per night):** \n - **Hotel Name:** Windflower Resorts & Spa, Ooty \n - **Address:** 1, Glenmary Road, C.G. Hill, Ooty \n - **Amenities:** Outdoor pool, spa, and room service.\n\n### Activities & Sightseeing\n\n1. **Ooty Lake & Boating (Free):** \n - Enjoy a leisurely boat ride in the serene Ooty Lake.\n\n2. **Botanical Gardens** (₹50 entry fee):** \n - Explore the well-maintained Victorian-style gardens with a variety of plant species.\n\n3. **Ooty Mountain Railway** (₹100 round trip):** \n - Experience a scenic ride on the UNESCO World Heritage Site, the toy train.\n\n4. **Pykara & Kodanad View Points (Free):** \n - Drive to Pykara for breathtaking views of the Kodanad Bird Sanctuary and waterfalls.\n\n5. **Visit Doddabetta Peak** (₹50 entry fee):** \n - Hike to the highest peak in the Nilgiris for panoramic views.\n\n### Packing List\n\n- Light, breathable clothing (Ooty's weather is generally pleasant, with temperatures ranging from 14°C to 21°C)\n- Comfortable walking shoes\n- Rain jacket (check current weather forecasts)\n- Sunscreen and sunglasses\n- Camera for capturing beautiful landscapes\n\n### Safety & Cultural Tips\n\n- **Weather:** Keep an eye on the weather forecast, as Ooty can experience light showers.\n- **Local Customs:** Ooty is a multi-religious town. Dress modestly when visiting religious sites.\n- **Food:** Try local delicacies like the 'Hot Butter Masala Dosa' and 'Badam Milk.'\n- **Transportation:** Auto-rickshaws and taxis are available. Negotiate fares beforehand.\n\n### Current Weather\n\nAccording to the latest weather updates, Ooty is experiencing pleasant temperatures with a chance of light showers. Pack accordingly and stay updated with real-time weather forecasts.\n\nPlease confirm if this itinerary meets your expectations, or if you'd like any adjustments.",
        "role": "assistant"
      }
    ]
  }
}
```

Download JSON file

RESULTS

GO Anywhere Travel Planner Agent ✓ Deployed Online

API reference

Test

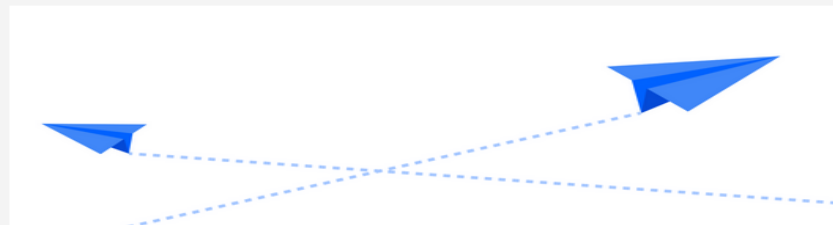
Preview



GO Anywhere Travel Planner Agent 01:19 AM

Welcome to GO Anywhere Travel Planner Agent

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Quick start samples

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prepare a trip form 20 Aug to 25 Aug of OOTY in Tamil nadu under 20000 and tell me the exact detail as per current weather



RESULTS

GO Anywhere Travel Planner Agent ✔ Deployed Online

API reference

Test

Preview

[New chat](#)



You 01:45 AM

prepare a trip from 20 Aug to 25 Aug of OOTY in Tamil nadu under 20000 and tell me the exact detail as per current weather



GO Anywhere Travel Planner Agent 01:45 AM

Hi, I'm your Go Anywhere Travel Planner AI Agent. How can I help you today?

You're planning a trip to Ooty, Tamil Nadu, from August 20 to 25, with a budget of ₹20,000. Here's a detailed itinerary considering the current weather:

Day-by-Day Itinerary

Day 1: August 20 (Arrival)

- **Morning:** Depart from your location to Ooty. You can take a flight to Madurai (IXM) or Coimbatore (CJB), followed by a train or bus to Ooty.
- **Afternoon:** Check-in at a mid-range hotel like Hotel Mount View (₹1,500/night) or a budget-friendly option like Pykara Eco Lodge (₹1,000/night).
- **Evening:** Rest and acclimatize to the altitude. Enjoy a leisurely walk around the Government Botanical Garden.

Day 2: August 21

- **Morning:** Visit the Ooty Lake and take a boat ride (₹200).
- **Afternoon:** Explore the Toda Tribal Museum (entry free) to learn about the local culture.
- **Evening:** Head to the Pykara Waterfalls (₹50 entry fee) for a scenic evening.

Day 3: August 22

RESULTS

GO Anywhere Travel Planner Agent ✔ Deployed Online

API reference

Test

Preview

Day 3: August 22

- **Full Day:** Take a day trip to the nearby Doddabetta Peak (₹150 ticket) for panoramic views. Alternatively, visit the Rose Garden (entry free) and enjoy a stroll.

Day 4: August 23

- **Morning:** Visit the Stone Pine Bridge and enjoy the view of the tea estates.
- **Afternoon:** Explore the Wax World Ooty (₹300 entry) for a unique experience.
- **Evening:** Relax at the Government Museum (entry free) to learn about the region's history.

Day 5: August 24

- **Morning:** Visit the famous Ooty Tea Museum (entry free) to understand the tea-making process.
- **Afternoon:** Explore the Mudumalai National Park (₹150 entry) for a wildlife experience.
- **Evening:** Enjoy a scenic ride on the Nilgiri Mountain Railway (₹80).

Day 6: August 25 (Departure)

- **Morning:** Check-out from your hotel and head to the nearest airport/railway station for your departure.

Transport

- **Flight:** Round trip from Madurai (IXM) or Coimbatore (CJB) to Ooty. Approx. ₹3,000–₹5,000.
- **Train/Bus:** Multiple daily trains and buses connect Ooty to major cities. Approx. ₹500–₹1,000 one-way.

Accommodation

- **Mid-range:** Hotel Mount View (₹1,500/night)
- **Budget:** Pykara Eco Lodge (₹1,000/night)

Activities

- Ooty Lake boat ride: ₹200
- Toda Tribal Museum: Free
- Pykara Waterfalls entry: ₹50

RESULTS

GO Anywhere Travel Planner Agent ✓ Deployed Online

API reference

Test

Preview

Activities

- Ooty Lake boat ride: ₹200
- Toda Tribal Museum: Free
- Pykara Waterfalls entry: ₹50
- Doddabetta Peak ticket: ₹150
- Wax World Ooty entry: ₹300
- Ooty Tea Museum: Free
- Mudumalai National Park entry: ₹150
- Nilgiri Mountain Railway: ₹80

Packing List

- Light to moderate clothing (expect temperatures around 15-22°C)
- Rain gear (check current weather forecast)
- Comfortable walking shoes
- Camera
- Insect repellent (for outdoor activities)

Safety & Cultural Tips

- Ooty experiences pleasant weather, but be prepared for occasional rain.
- Respect local customs and traditions.
- Stay hydrated and avoid overexertion due to the altitude.

Current Weather

As of now, Ooty is experiencing partly cloudy skies with a high of 20°C and a low of 12°C. There is a chance of light rain, so pack accordingly.

Please confirm if this itinerary meets your expectations, or let me know if you'd like any adjustments. Would you like me to email this plan or make any adjustments?

► How did I get this answer?

| type something...



CONCLUSION

- The Go Anywhere Travel Planner Agent transforms complex trip planning into an intuitive, stress-free experience. By leveraging IBM Cloud AI services—including IBM Granite and Watson Assistant—it delivers:
- Real-time, adaptive itineraries that adjust to weather changes and travel delays
- Deep personalization through natural language understanding and user-centric recommendations
- Seamless orchestration of maps, booking APIs, and live data for end-to-end planning
- A conversational, chat-based interface that keeps the process engaging and efficient
- This project showcases AI's tangible impact on solving real-world logistical challenges while maintaining a user-friendly, highly efficient travel planning solution.

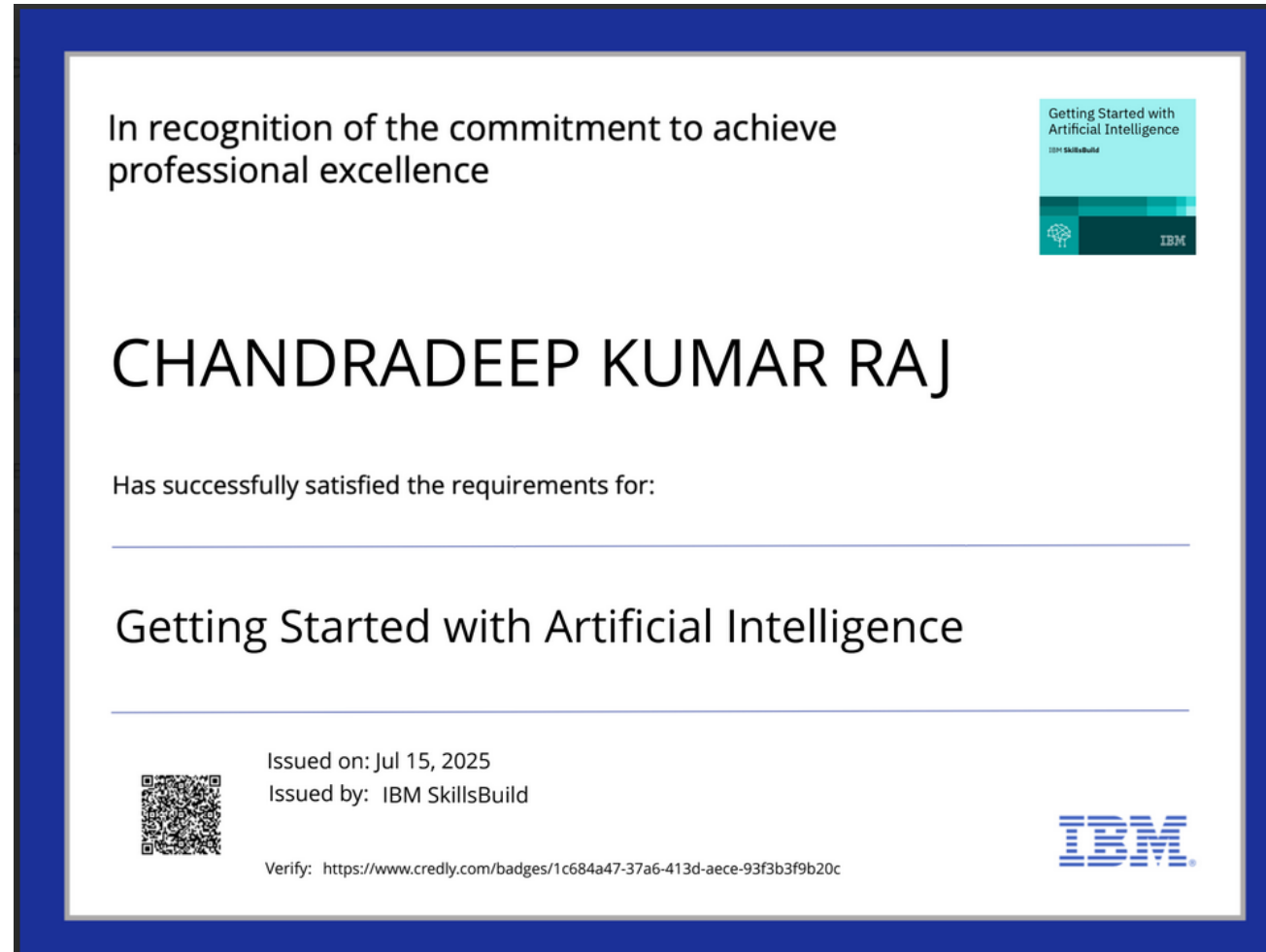
GITHUB LINK

- Github Link : - https://github.com/chandradeepkumarranj/ibm_travel_agent_ai

FUTURE SCOPE

- **Voice Assistant Integration**
Enable hands-free trip planning through Alexa, Siri, or Google Assistant interactions.
- **Multilingual Support**
Incorporate Watson Language Translator to serve users in their native languages.
- **Booking Platform Connections**
Seamlessly book flights, hotels, and experiences via Skyscanner, Airbnb, and other APIs.
- **Emergency Support Services**
Offer location-based alerts and assistance for health, safety, or travel disruptions.
- **Offline Mode Access**
Provide core itinerary details and maps in low-connectivity regions.
- **AR-Based Destination Previews**
Let users virtually explore hotels, landmarks, and routes before arrival.
- **AI Budget Optimizer**
Automatically tailor recommendations to maximize experiences within a user's budget.
- **Community-Driven Recommendations**
Integrate traveler reviews and social feeds for richer, peer-based insights.

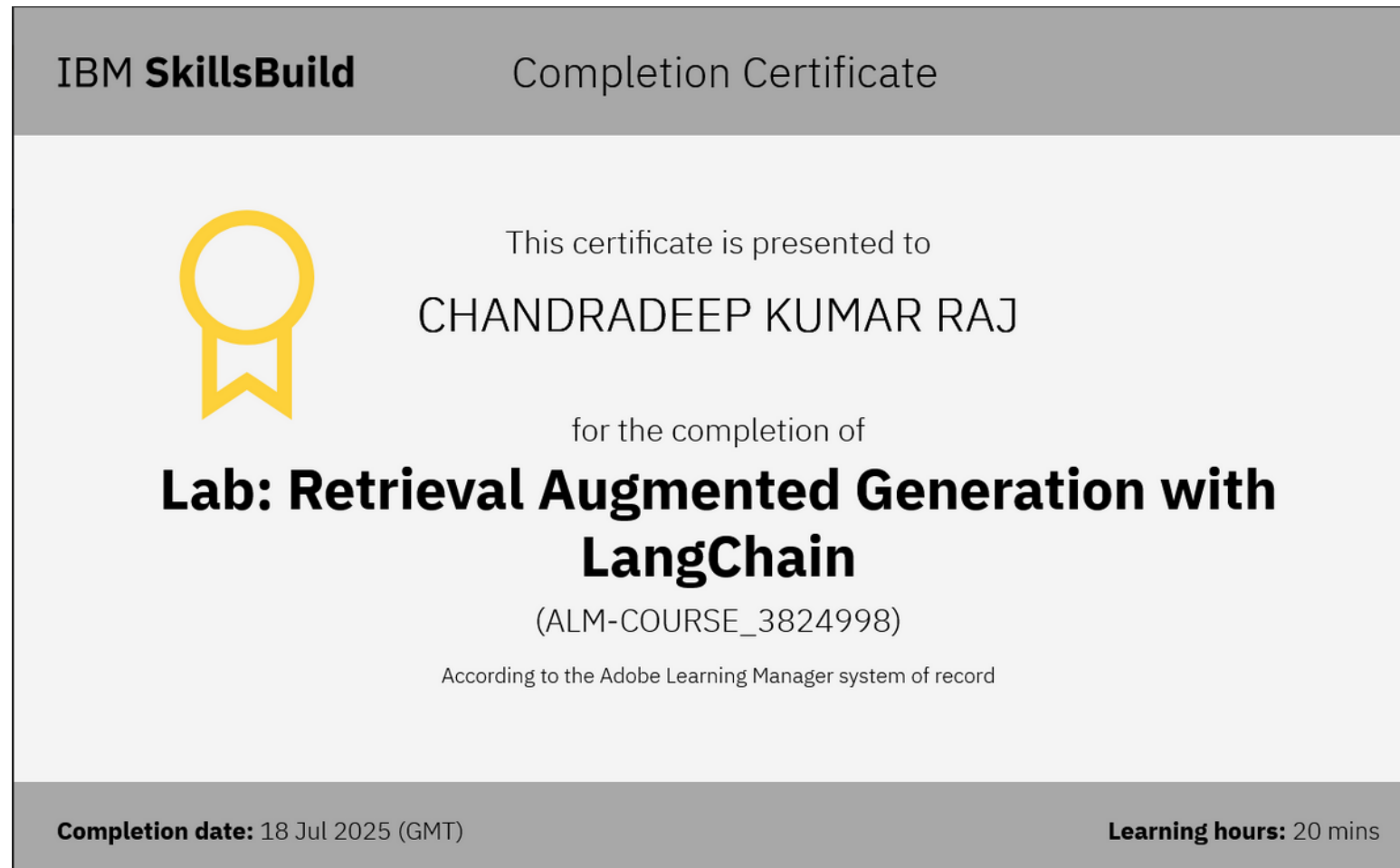
IBM CERTIFICATIONS



IBM CERTIFICATIONS



IBM RAG LAB CERTIFICATE





THANK YOU