
IBM HACKATHON PROJECT

TRAVEL PLANNER AGENT

Presented By:

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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 planning is often time-consuming and complex due to the need to research destinations, book accommodations, manage schedules, and stay updated with real-time conditions like weather or transport delays. Many travelers face challenges in personalizing trips according to their preferences, budgets, and constraints. There is a need for a smart system that can automate and simplify the entire planning process while adapting to real-time changes.

Proposed Solution:

- Personalized travel planning based on individual preferences.
- Integrates real-time data for weather, location, and cost.
- Scalable and modular using IBM Cloud and Watsonx.
- Natural conversation-like interactions via AI model.

TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model

Machine Learning

IBM CLOUD SERVICES USED

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

WOW FACTORS

Automatically creates **personalized travel plans** (locations, activities, hotels) using user preferences. Integrates **live weather**, **hotel availability**, and **local attractions** using APIs .

Unique features:

A smart system that **dynamically adjusts travel plans** in real-time based on:

- Real-time API data
- Budget-aware suggestions

END USERS

- Family and Groups
- Solo Travellers
- Travel Agencies
- International Tourists

RESULTS

Agent Lab — Agentic_AI | IBM

datapatform.cloud.ibm.com/wx/agents?context=wx&project_id=380815c4-8652-4558-88ba-fdabd2b7efda

S

IBM watsonx

Upgrade ?

Sanjana Patil's Account

Dallas

SP

Projects / Agentic_AI / Agent Lab

Share feedback

Unsaved

New agent +

Deploy

Build

AI

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

Quick start questions

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

Configuration

Framework

LangGraph

Architecture

ReAct

Instructions

Advanced configuration

I am your AI travel buddy - plan trip, book stays, suggest spot, all tailored just for you !

Knowledge

Tools

Agent preview

SP You: 02:32 PM

Give me 5 days travel plan from goa to chennai

Travel Agent 02:32 PM

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

Day 1: Departure from Goa

- Morning: Depart from Goa. You can choose to travel by flight or train. The flight duration is approximately 1.5 hours, and the train journey can take around 24-36 hours depending on the train.
- Evening: Arrive in Chennai. Check into your hotel and rest. You can explore the local area around your hotel.

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 the sun, sand, and local street food.
- Evening: Visit San Thome Cathedral, a Roman Catholic basilica located on an island connected by a causeway.

Type something...

5 27°C Mostly cloudy

Search

ENG IN

14:32 31-07-2025

RESULTS

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edunet
foundation

RESULTS

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Agent preview

Day 3: Cultural Immersion

- Morning: Visit the Government Museum, which houses a vast collection of artifacts and exhibits.
- Afternoon: Explore the DakshinaChitra Museum, a living history museum that showcases the architectural and cultural heritage of South India.
- Evening: Enjoy a traditional Tamil cultural show at Phoenix MarketCity.

Day 4: Day Trip to Mahabalipuram

- Full Day: Take a day trip to Mahabalipuram, a UNESCO World Heritage site known for its ancient temples and monolithic rock carvings. Visit the Shore Temple, Five Rathas, and the Mahabalipuram Five Pagodas.

Day 5: Return to Goa

- Morning: Depart from Chennai. Choose your preferred mode of transportation (flight or train) to return to Goa.

Please note that this is a basic itinerary. Depending on your interests, you might want to adjust it. For instance, if you're a foodie, you might want to include more culinary experiences. If you're interested in shopping, you could add visits to local markets.

For the most accurate and up-to-date information, I would recommend using a travel planning AI

RESULTS

Travel Agent — Agentic_AI | IBM

Deployments | IBM watsonx

← → ↺

dataplatform.cloud.ibm.com/ml-runtime/spaces?context=wx

☆ S

IBM watsonx

Upgrade ? 🔔

Sanjana Patil's Account ▾ Dallas ▾ SP

Deployments

1 space

New deployment space +

Activity

Spaces

Filter by: All spaces ▾ 🔍 Which deployment space are you looking for?

Name	Last modified ▾	Your role	Collaborators	Tags	Type	Online deployments	Jobs
Travel-Agent	Jul 31, 2025, 2:58 PM	Admin	SP		Production	0	0

Items per page: 20 ▾ 1–1 of 1 items

1 ▾ 1 of 1 pages ⏪ ⏩

6 27°C Mostly cloudy

Search

ENG IN

14:59 31-07-2025

CONCLUSION

- The Travel Planner Agent simplifies and personalizes the travel experience using real-time intelligence. It reduces manual effort, improves decision-making, and enhances overall satisfaction by dynamically adjusting plans based on live inputs

GITHUB LINK

<https://github.com/Sanjanapatil29/Travel-Planner-Agent>

FUTURE SCOPE

- Integration with voice assistants (e.g., Siri, Google Assistant)
- Offline travel itinerary availability
- Multi-user trip coordination (e.g., family/friends planning together)
- Support for international languages
- More accurate AI predictions using user history and reviews

IBM CERTIFICATIONS

In recognition of the commitment to achieve professional excellence



Sanjana Patil

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 15, 2025
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/bd733498-0c5e-4500-813e-c05bc2062054>



IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Sanjana 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: 23 Jul 2025 (GMT)

Learning hours: 20 mins



THANK YOU