
Travel Planner Agent

Presented By:

NAME: Sumit Mohan Kadam
College: MIT AOE



OUTLINE

- **Problem Statement**
- **Proposed System/Solution**
- **System Development Approach**
- **Algorithm & Deployment**
- **Result (Output Image)**
- **Conclusion**
- **Future Scope**
- **References**

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. 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

An AI Agent powered by Retrieval-Augmented Generation (RAG), using IBM Cloud & Granite, to answer user queries, guide financial decisions, and educate people on secure digital finance

TECHNOLOGY USED

- IBM Cloud Lite Services
- IBM Watsonx AI Studio
- IBM Granite Foundation Model
- Retrieval-Augmented Generation (RAG)
- Natural Language Processing (NLP)
- Multilingual Support
- Secure API Integrations with Govt/Bank portals

IBM CLOUD SERVICES USED

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

End Users

1. Individual Travelers
2. Working Professionals
3. Senior Citizens
4. Travel Agencies and Agents
5. Foreign Tourists

Result

Preview :

Projects / IBM_Agentic_AI1 / Agent Lab

Share feedback β Unsaved 📁 ▼ New agent + Deploy 🔗

Build

AI Model: llama-3-3-70b-instruct ⚙️ <

Setup

Configuration

Framework Architecture

LangGraph ▼ ReAct ▼

Instructions [Advanced configuration](#)

You are a helpful assistant that uses tools to answer questions in detail.
When greeted, say "Hi, I am watsonx.ai agent. How can I help you?"

Knowledge

Tools

Add a tool

Create custom tool

Added tools (1)

Agent preview

▶ How did I get this answer?

PM You: 08:42 PM

give me travel plan to travel from mumbai to pune with budget

🤖 watsonx Agent 08:42 PM

The final answer to the user's question "How much does it cost to travel to and fro from Mumbai to Pune?" is:

The cost of traveling from Mumbai to Pune can vary depending on the mode of transportation and the time of booking. However, based on the search results, here are some approximate costs:

- By car: The cost of fuel for a round trip from Mumbai to Pune can range from ₹2,000 to ₹5,000, depending on the type of car and the number of passengers.
- By bus: The cost of a one-way bus ticket from Mumbai to Pune can range from ₹500 to ₹1,500, depending on the bus operator and the type of bus.
- By train: The cost of a one-way train ticket from Mumbai to Pune can range from ₹500 to ₹2,000, depending on the class of travel and the type of train.
- By flight: The cost of a one-way flight ticket from Mumbai to Pune can range from ₹2,000 to ₹5,000, depending on the airline and the time of booking.

It's always a good idea to compare prices and book in advance to get the best deals. Additionally, it's worth considering the cost of accommodation, food, and other expenses when planning a trip from Mumbai to Pune.

Type something...

🔍 ▶

Result

Preview :

jects / IBM_Agentic_AI1 / Agent Lab

Share feedback β Unsaved ▼ New agent + Deploy

Build

AI Model: llama-3-3-70b-instruct

Setup

Configuration

Framework

Architecture

LangGraph

ReAct

Instructions

Advanced configuration

You are a helpful assistant that uses tools to answer questions in detail.
When greeted, say "Hi, I am watsonx.ai agent. How can I help you?"

Knowledge

Tools

Add a tool

Create custom tool

Added tools (1)

Google search

Agent preview

How did I get this answer?

PM You: 08:43 PM

1 day travel plan at raigad

watsonx Agent 08:43 PM

Here's a 1-day travel plan for Raigad:

1. Start early in the morning and head to Raigad Fort, which is located about 25 km from Mahad.

2. Take a guided tour of the fort and explore its historic significance and architecture.

3. After visiting the fort, head to the Phansad Wildlife Sanctuary, which is home to a variety of flora and fauna.

4. In the evening, visit the Kondhane Buddhist Caves, which are a series of ancient caves that date back to the 1st century BC.

5. End the day with a relaxing stay at a hotel or resort in Raigad or nearby Mahad.

This plan provides a good balance of history, culture, and nature, and can be customized based on individual preferences and interests.

► How did I get this answer?

Type something...

Result Preview :

Projects / IBM_Agentic_AI1 / Agent Lab

Share feedback β | Unsaved | New agent + | Deploy

Build

AI Model: llama-3-3-70b-instruct

Setup

Configuration

Framework: LangGraph Architecture: ReAct

Instructions

Advanced configuration

You are a helpful assistant that uses tools to answer questions in detail. When greeted, say "Hi, I am watsonx.ai agent. How can I help you?"

Knowledge

Tools

Add a tool Create custom tool

Added tools (1)

Agent preview

You: 08:43 PM

1 day travel plan at raigad

watsonx Agent 08:43 PM

Here's a 1-day travel plan for Raigad:

1. Start early in the morning and head to Raigad Fort, which is located about 25 km from Mahad.

2. Take a guided tour of the fort and explore its historic significance and architecture.

3. After visiting the fort, head to the Phansad Wildlife Sanctuary, which is home to a variety of flora and fauna.

4. In the evening, visit the Kondhane Buddhist Caves, which are a series of ancient caves that date back to the 1st century BC.

5. End the day with a relaxing stay at a hotel or resort in Raigad or nearby Mahad.

This plan provides a good balance of history, culture, and nature, and can be customized based on individual preferences and interests.

How did I get this answer?

Projects / IBM_Agentic_AI1 / Agent Lab

Share feedback β | Unsaved | New agent + | Deploy

Build

AI Model: llama-3-3-70b-instruct

Setup

Configuration

Framework: LangGraph Architecture: ReAct

Instructions

Advanced configuration

You are a helpful assistant that uses tools to answer questions in detail. When greeted, say "Hi, I am watsonx.ai agent. How can I help you?"

Knowledge

Tools

Add a tool Create custom tool

Added tools (1)

Agent preview

Day 3: South Goa

Visit the beaches of South Goa, such as Palolem and Agonda

Explore the local villages and try some water sports

Enjoy a relaxing evening on the beach

Day 4: Dudhsagar Waterfalls and Spice Plantations

Visit the Dudhsagar Waterfalls, one of the tallest waterfalls in India

Explore the spice plantations and learn about the local flora and fauna

Enjoy a traditional Goan lunch

Day 5: Departure

Spend the morning relaxing on the beach or exploring the local markets

Depart for the airport and head back home

This is just one example of a 5-day itinerary for Goa, and you can customize it based on your interests and preferences. Enjoy your trip to Goa!

How did I get this answer?

Type something...

Result

CREATING DEVELOPMENT SPACE

Projects / IBM_Agentic_AI1 / Agent Lab

Share feedback β Unsaved 📁 ▼ New agent + Deploy 🔗

Deploy as an AI service ×

Create an online deployment. If you want to edit code in notebook format before deploying, save as a deployment notebook. [Learn more.](#)

Define details

Deployment name

watsonx Agent

Target deployment space

IBM AI deplo ▼

Why don't I see all of my deployment spaces? ⓘ

Description (optional)

Change this description to reflect your particular agent

☒ View in deployment space after deploying ⓘ

Cancel

Deploy

Result

DEVELOPMENT:

IBM AI deplo

Overview

Assets

Deployments

Jobs

Manage

Search

Name		Type	Status	Asset	Asset type	Tags	Last modified	
<div><div></div><div>watsonx Agent</div></div>	Online	<div><div></div>Deployed</div>	<div>watsonx Agent</div>	Ai service	<div>wx-agent</div> <div></div>	45 seconds ago Parth Mahajan (You)	<div></div>	

Conclusion

- Built on IBM Cloud Lite, integrated with Granite LLM and RAG architecture, the agent sources updated, trustworthy data from travel portals, tourism boards, and booking services.
- Suggests cost-effective and optimized travel itineraries
- Helps compare transportation and accommodation options
- Offers weather, visa, and safety information
- Enhances decision-making through alerts and personalized recommendations



Future scope

- Generate AI-powered travel summaries and cost reports to help users analyze and optimize their trips
 - Expand into local tourism, eco-tourism, and international travel assistance
 - Collaborate with transport services, hotel chains, and tourism boards to offer real-time, personalized

IBM Certifications

In recognition of the commitment to achieve
professional excellence



Sumit Kadam

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 18, 2025
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/e2078838-96d4-47a8-ba9e-13bb956bfc41>



IBM Certifications

In recognition of the commitment to achieve professional excellence



Sumit Kadam

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution



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

Verify: <https://www.credly.com/badges/08d51b6e-1aae-4ea8-8db7-fa547073ae5c>



IBM Certifications

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to
Sumit Mohan Kadam

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

Github link:

https://github.com/sumit10/IBM_Project



THANK YOU