
CAPSTONE PROJECT

TRAVEL PLANNER AGENT

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OUTLINE

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PROBLEM STATEMENT

Researchers, students, and professionals often struggle to stay updated with the rapidly growing volume of academic publications, technical articles, datasets, and evolving research trends. Manually reviewing, filtering, and synthesizing information across multiple domains is time-consuming and inefficient.

Proposed Solution:

An AI Research Agent that uses Natural Language Processing (NLP), Retrieval-Augmented Generation (RAG), to assist users in conducting efficient literature reviews, generating summaries, identifying research gaps, and recommending relevant papers, datasets, or collaborators.

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

This agent will significantly reduce research time, improve the quality of literature reviews, help early-stage researchers find direction, and foster interdisciplinary collaboration by making knowledge more accessible and actionable.

Unique features:

Semantic search across research papers, journals, and datasets

Auto-summarization of selected papers

Citation and reference analysis to trace influence

Recommendation of research papers based on a user's current topic

Trend analysis over time for specific keywords or domains.

Collaboration mapping: suggests potential co-authors or institutions based on similar research interests.

END USERS

- Academic Researchers
- Research Institutions and Universities
- Industry R&D Teams
- Educators

RESULTS

The screenshot displays the IBM watsonx Agent Lab interface. The top navigation bar includes the IBM watsonx logo, a 'Projects' dropdown, and the current project 'Travel_Agent | Agent Lab'. The URL bar shows the project ID. The main interface is divided into two panels: 'Build' and 'Agent preview'.

Build Panel:

- Model:** llama-3-3-70b-instruct
- Framework:** LangGraph
- Architecture:** ReAct
- Instructions:** I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized. Whether you're dreaming of a quick weekend escape or a long international adventure, I'm here to guide you through every step.
- Knowledge:** Vector index (Select or create vector index)

Agent preview Panel:

You: 11:01 AM
Give me a 4 days travel plan from Mumbai to Goa

Travel_Agent 11:01 AM
Here's a 4-day travel plan from Mumbai to Goa:

Day 1: Mumbai to Goa

- Take a morning flight from Mumbai to Goa
- Check-in to your hotel and freshen up
- Visit the famous Calangute Beach and enjoy water sports
- In the evening, explore the local market and try some street food

Day 2: Goa

- Start the day with a delicious breakfast
- Visit the Fort Aguada and enjoy the scenic views
- Head to the Baga Beach and enjoy the sunset
- In the evening, enjoy a traditional Goan dinner and watch a cultural performance

Day 3: Goa

Day 4: Goa

Day 5: Goa

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Day 9: Goa

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RESULTS

The screenshot displays the IBM Watsonx Agent Lab interface. The top navigation bar includes the IBM Watsonx logo, an 'Upgrade' button, a user profile for 'Suraj Nimbalkar's Account', and a location dropdown for 'Dallas'. The main header shows the project path 'Projects / Travel_Agent / Agent Lab' and a 'Deploy' button.

The interface is divided into two main panels:

- Build Panel:** This panel is used to configure the agent. It includes a 'Setup' section, a 'Configuration' section with dropdowns for 'Framework' (set to 'LangGraph') and 'Architecture' (set to 'ReAct'), and an 'Instructions' section. The instructions text reads: "I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized. Whether you're dreaming of a quick weekend escape or a long international adventure. I'm here to guide you through every step." Below the instructions is a 'Knowledge' section with a 'Vector index' dropdown and a 'Clear chat' button.
- Agent preview Panel:** This panel shows a preview of the agent's output. It displays a sample itinerary for Goa, including activities like visiting Dudhsagar Waterfalls, trekking, and visiting a local spa. It also shows a chat history with a user asking for hotel suggestions and the agent's response.

RESULTS

Agent Lab (beta) — Docs | IBM watsonx

Agent Lab — Travel_Agent | IBM

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🔗

dataplatfom.cloud.ibm.com/wx/agents?context=wx&project_id=2b4b84c4-e0cb-47ff-8dc9-801c4f18409e

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☰

IBM watsonx

Upgrade ? 🔔

Suraj Nimbalkar's Account ▾

Dallas ▾

SN

Projects / Travel_Agent / Agent Lab

Share feedback B

Unsaved 📁 ▾

New agent +

Deploy 🚀

Build

AI

Model: llama-3-3-70b-instruct ▾

⚙️

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Setup ▾

Configuration ▴

Framework

LangGraph ▾

Architecture

ReAct ▾

Instructions

Advanced configuration

I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized. Whether you're dreaming of a quick weekend escape or a long international adventure. I'm here to guide your through every step.

Build a chatbot that helps users:

Knowledge ▴

Vector index

Select or create vector index ▾

Clear chat

If you want to add a vector index to the agent, clear the agent preview chat.

Agent preview

SN You: 11:02 AM

Suggest best hotels in Goa

Travel_Agent 11:02 AM

Some of the best hotels in Goa include:

1. Ahilya by the Sea, Nerul

2. Ānamiva, Anjuna

3. Elsewhere, Ashvem

4. MansionHaus, Anjuna

5. Siolim House, Siolim

6. Le Méridien Goa, Calangute

7. The LaLiT Golf & Spa Resort Goa

8. Fairfield by Marriott Goa Benaulim

9. Hyatt Place Goa / Candolim

10. ITC Grand Goa Resort & Spa

11. The Leela Goa

12. Le Méridien Goa

13. Vaayu Waterman's Village

14. Hard Rock Hotel Goa

Type something...

RESULTS

Deployed AI Agent:

The screenshot displays the IBM watsonx Agent Lab interface. The top navigation bar includes the text "Agent Lab (beta) — Docs | IBM watsonx" and a tab for "Travel_Agent — Travel_Agent | IB". The browser address bar shows the URL "datapatform.cloud.ibm.com/wx/agents/468be283-f1a1-4ba7-ac65-f6ce734b0ea3?project_id=2b4b84c4-e0cb-47ff-8dc9-8...". The IBM watsonx logo is in the top left, and the user's account "Suraj Nimbalkar's Account" and location "Dallas" are in the top right. The main interface is divided into three sections: "Saved agents", "Build", and "Agent preview".

Saved agents: This section lists the agent "Travel_Agent" with the description "I'm your Travel Planner Agent, designed to make your travel ...".

Build: This section shows the configuration for the agent. The "Setup" tab is active. The "Name" field is "Travel_Agent". The "Description" field contains the text "I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized." The "Icon" field shows a robot head icon. The "Placeholder image" field shows a placeholder image of a robot head.

Agent preview: This section shows a preview of the agent's interface. It displays a welcome message: "Welcome to Travel_Agent. I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized." Below the message is a diagram of a travel planning process. At the bottom is a text input field with the placeholder "Type something..." and a send button.

RESULTS

Deployed AI Agent:

The screenshot shows the IBM Watsonx deployment interface for the **Travel_Agent**. The browser address bar shows the URL: `datapatform.cloud.ibm.com/ml-runtime/deployments/6c789232-d94f-480e-9d17-7201dceb1938/chat?space_id=2af7199...`. The interface includes a navigation bar with the IBM Watsonx logo, an "Upgrade" button, and user information for "Suraj Nimbalkar's Account" in the "Dallas" region. The main content area displays the deployment status as "Travel_Agent" with a green checkmark and "Deployed" and "Online" labels. Below this, there are tabs for "API reference", "Test", and "Preview", with the "Preview" tab selected. The chat interface shows a message from "Travel_Agent" at 11:55 AM: "Welcome to Travel_Agent. I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized." Below the message is a diagram of a neural network with a magnifying glass icon. At the bottom is a text input field with the placeholder "Type something...". On the right side, a sidebar titled "About this deployment" provides details: Name (Travel_Agent), Description (I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized.), Deployment Details (Deployment ID: 6c789232-d94f-48..., 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), and Associated asset (Travel_Agent).

Agent Lab (beta) — Docs | IBM watsonx — Travel_Agent — Travel_Agent | IBM w — Travel_Agent — Travel_Agent | IBM w — Travel_Agent — Travel_Agent | IBM w

datapatform.cloud.ibm.com/ml-runtime/deployments/6c789232-d94f-480e-9d17-7201dceb1938/chat?space_id=2af7199...

IBM watsonx Upgrade ? Suraj Nimbalkar's Account Dallas SN

Deployment spaces / Travel_Agent / Travel_Agent /

Travel_Agent Deployed Online

API reference Test **Preview**

New chat +

Travel_Agent 11:55 AM

Welcome to Travel_Agent

I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized.

Type something...

About this deployment

Name
Travel_Agent

Description
I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized.

Deployment Details
Deployment ID: 6c789232-d94f-48...
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
Travel_Agent

RESULTS

Deployed AI Agent:

The screenshot displays the IBM Watsonx interface for a deployed AI agent named **Travel_Agent**. The agent is shown as **Deployed** and **Online**. The interface includes a chat window and a sidebar with deployment details.

Chat Window:

- User:** You 11:56 AM
Give me 4 days plan for Mumbai to Goa
- Travel_Agent:** 11:56 AM
Here's a 4-day plan for a trip from Mumbai to Goa:

Day 1: Mumbai to Goa
 - Take a flight or train from Mumbai to Goa
 - Check-in to your hotel and freshen up
 - Visit the famous Calangute Beach and enjoy the sunset
 - Try some local seafood and drinks at a nearby restaurant
Day 2: North Goa

Deployment Details (Sidebar):

- About this deployment**
- Name:** Travel_Agent
- Description:** I'm your Travel Planner Agent, designed to make your travel planning smart, easy, and personalized.
- Deployment Details:**
 - Deployment ID: 6c789232-d94f-480e-9d17-7201dceb1938
 - 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:** Travel_Agent

CONCLUSION

- The agent can generate reports, suggest hypotheses, and even draft sections of research papers.
- It saves time by automating repetitive tasks like citation management and data extraction.
- Research Agents enhance efficiency, accuracy, and innovation in both academic and industrial R&D.

FUTURE SCOPE

- Multilingual Research Support
- Voice-Activated Research Assistant
- Real-Time Collaboration Features
- Research Gap and Novel Topic Identification
- Integration with Publishing Platforms
- AI-Assisted Paper Drafting

IBM CERTIFICATIONS





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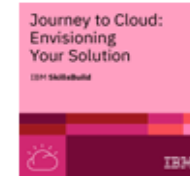
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**Lab: Retrieval Augmented Generation with
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GITHUB LINK

- Git hub link : https://github.com/Suraz3123/Travel_Agent.git



THANK YOU