
CAPSTONE PROJECT

TRAVEL PLANNER AGENT

Presented By: Pavan Prakash Karale

Student name : Pavan Prakash Karale

**College Name & Department : jspm's Jayawantrao Sawant College of Engineerings
Hadapsar Pune & information Technology**

OUTLINE

- Problem Statement
- Technology used
- Wow factor
- End users
- Result
- Conclusion
- Git-hub Link
- Future scope
- IBM Certifications

PROBLEM STATEMENT

Travel Planner Agent – AI-Powered Travel Assistant

A smart AI system that simplifies and personalizes the travel planning process using real-time data. It assists in choosing destinations, creating itineraries, recommending transport and stay, managing bookings, and ensuring a seamless travel experience tailored to user preferences.

TECHNOLOGY USED

- ❑ IBM cloud lite services
- ❑ Natural Language Processing (NLP)
- ❑ Retrieval Augmented Generation (RAG)
- ❑ IBM Granite model

IBM CLOUD SERVICES USED

- ☐ IBM Watson Assistant
- ☐ IBM Watson Discovery
- ☐ IBM Granite Model
- ☐ IBM Cloud Object Storage
- ☐ IBM Cloud Functions
- ☐ IBM Cloudant

WOW FACTORS

- **AI-Powered Personalization**
Tailors itineraries based on user preferences, budget, and travel history using IBM Granite Model.
- **Real-Time Suggestions**
Dynamically recommends destinations, transport, and accommodation with live data feeds.
- **Integrated Weather & Maps**
Provides weather-aware travel plans and location-based guides for smooth experiences.
- **Chat-Based Planning Assistant**
Interactive, human-like conversation using IBM Watson Assistant.
- **Smart Booking & Alerts**
Manages bookings and sends instant notifications for changes or updates.
- **On-the-Go Schedule Optimization**
Automatically adjusts plans based on delays, weather, or user feedback.

END USERS


- ❑ **Individual Travelers** – For planning personal or family vacations effortlessly.
- ❑ **Travel Agencies** – To automate and enhance trip planning services for clients.
- ❑ **Corporate Employees** – For organizing business trips with optimized schedules.
- ❑ **Tour Operators** – To offer guided, smart itineraries for group tours.
- ❑ **Backpackers & Solo Travelers** – For budget-friendly, flexible, real-time travel planning.

RESULTS

[Upgrade](#) [?](#) [🔔](#) Pavan Karale's Account ▾ London ▾ PK [⋮](#)


[Share feedback](#) β Unsaved [📁](#) [▾](#) New agent + Deploy [🔗](#)

Agent preview

 Travel Planner Agent 01:21 PM

Welcome to Travel Planner Agent

The Travel Planner Agent is an agentic AGI-powered system designed to automate and personalize the e



Sample questions

Help me plan my next trip

Where should I go for a vacation?

[🔍](#) [▶](#)

RESULTS

The screenshot displays the IBM Watsonx interface for the Travel Planner Agent. The browser address bar shows the URL: `eu-gb.dataplatform.cloud.ibm.com/wx/agents/accc8f7e-8a02-4354-951f-4624a070b9e7?project_id=227c3ad4-c955-4ad1-af45-f75375bcbf5d&context=wx`. The interface includes a top navigation bar with the IBM Watsonx logo, an 'Upgrade' button, and user information for 'Pavan Karale's Account' in the 'London' region. Below the navigation bar, the breadcrumb path is 'Projects / Traveler planner Agent ai / Travel Planner Agent'. The main content area is titled 'Agent preview' and shows a chat conversation. The user (PK) has sent the message: 'Help me plan my next trip'. The Travel Planner Agent has responded: 'Sure, I can help you with that. Could you please provide me with the following details:'. The agent's response includes a bulleted list of required details: Destination, Travel dates, Budget, Number of travelers, and Travel type (solo, family, business, etc.). Below the list, there is a link 'How did I get this answer?' and a refresh icon. At the bottom of the chat area is a text input field with the placeholder 'Type something...'. The Windows taskbar at the bottom shows the system clock as 13:41 on 02-08-2025, along with various application icons and system status indicators.

Service Details - IBM Cloud x Travel Planner Agent — Traveler planner Agent ai x IBM watsonx x +

eu-gb.dataplatform.cloud.ibm.com/wx/agents/accc8f7e-8a02-4354-951f-4624a070b9e7?project_id=227c3ad4-c955-4ad1-af45-f75375bcbf5d&context=wx

IBM watsonx Upgrade Pavan Karale's Account London PK

Projects / Traveler planner Agent ai / Travel Planner Agent Share feedback Autosave on New agent + Deploy

Build > Agent preview

PK You: 01:41 PM
Help me plan my next trip

Travel Planner Agent 01:41 PM
Sure, I can help you with that. Could you please provide me with the following details:

- Destination
- Travel dates
- Budget
- Number of travelers
- Travel type (solo, family, business, etc.)

► How did I get this answer?

Type something...

Trending videos
Avatar: Fire and...

Search

ENG IN 13:41
02-08-2025

RESULTS

IBM watsonx

Upgrade Pavan Karale's Account ▾ London ▾ PK

Projects / Traveler planner Agent ai / Travel Planner Agent

Share feedback Autosaved 1:46 PM ▾ New agent + Deploy

Build > Agent preview

▶ How did I get this answer?

You: 01:46 PM
tell best top 10 places in maharashtra

Travel Planner Agent 01:46 PM
Here are the top 10 places to visit in Maharashtra:

1. **Gateway of India** - A historic monument and popular tourist attraction in Mumbai.
2. **Della Adventure Park** - An amusement and theme park offering various adventure activities.
3. **Ganpatipule** - A beach town on the Konkan coastline known for its temples and beautiful beaches.
4. **Marine Drive** - A scenic promenade in Mumbai offering views of the Arabian Sea.
5. **Pune** - A vibrant city known for its cultural and historical significance.
6. **Kalsubai Trek** - A trek to the highest peak in Maharashtra, offering stunning views.
7. **Ajanta and Ellora Caves** - UNESCO World Heritage Sites featuring ancient rock-cut temples and monasteries.
8. **Lonavala** - A hill station known for its scenic beauty and adventure activities.
9. **Matheran** - A hill station and the smallest hill station in India, known for its eco-friendly environment.
10. **Nashik** - A city known for its religious significance and wine tourism.

These places offer a mix of historical, cultural, and natural experiences, making Maharashtra a diverse and exciting destination to explore.

Type something...

RESULTS

Deployed AI Agent

IBM watsonx

Upgrade

?

🔔

Pavan Karale's Account

London

PK

⋮

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 Planner Agent	Aug 2, 2025, 1:31 PM		Admin	PK			0	0

Items per page: 20

1-1 of 1 items

1

1 of 1 pages

◀

▶

CONCLUSION

- ❑ The Travel Planner Agent simplifies trip planning by automating tasks like itinerary creation, booking management, and real-time updates.
- ❑ It enhances the travel experience through personalized suggestions, live data integration, and smart optimizations.
- ❑ This intelligent assistant improves efficiency, convenience, and satisfaction for travelers, making planning seamless and enjoyable.

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

Screenshot/ credly certificate(getting started with AI)



RAG LAB CERTIFICATES :-

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Pavan Karale

for the completion of

**Lab: Retrieval Augmented Generation with
LangChain**

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 19 Jul 2025 (GMT)

Learning hours: 20 mins

JOURNEY TO CLOUD:-

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Pavan Karale

for the completion of

Journey to Cloud: Envisioning Your Solution

(PLAN-32CB1E21D8B4)

According to the Your Learning Builder - Plans system of record

Completion date: 19 Jul 2025 (GMT)



THANK YOU