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# CAPSTONE PROJECT

## TRAVEL ASSISTANT AI AGENT

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## OUTLINE

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

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# PROBLEM STATEMENT

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. This smart assistant transforms complex travel planning into a seamless, enjoyable process.

## Proposed Solution:

An AI-powered Travel Planner Agent using IBM Watsonx.ai Granite models in Watson Studio, which collects user preferences and generates personalized travel plans. The agent performs destination recommendations, transport and accommodation suggestions, itinerary planning, and weather forecasting, all integrated into a single intelligent workflow.

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# TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Prompt Engineering

IBM Granite model

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## IBM CLOUD SERVICES USED

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

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## WOW FACTORS

This agent will significantly reduce travel planning time, enhance the quality of trip decisions, assist first-time travelers in making informed choices, and encourage exploration by making travel information more personalized and actionable.

Unique features:

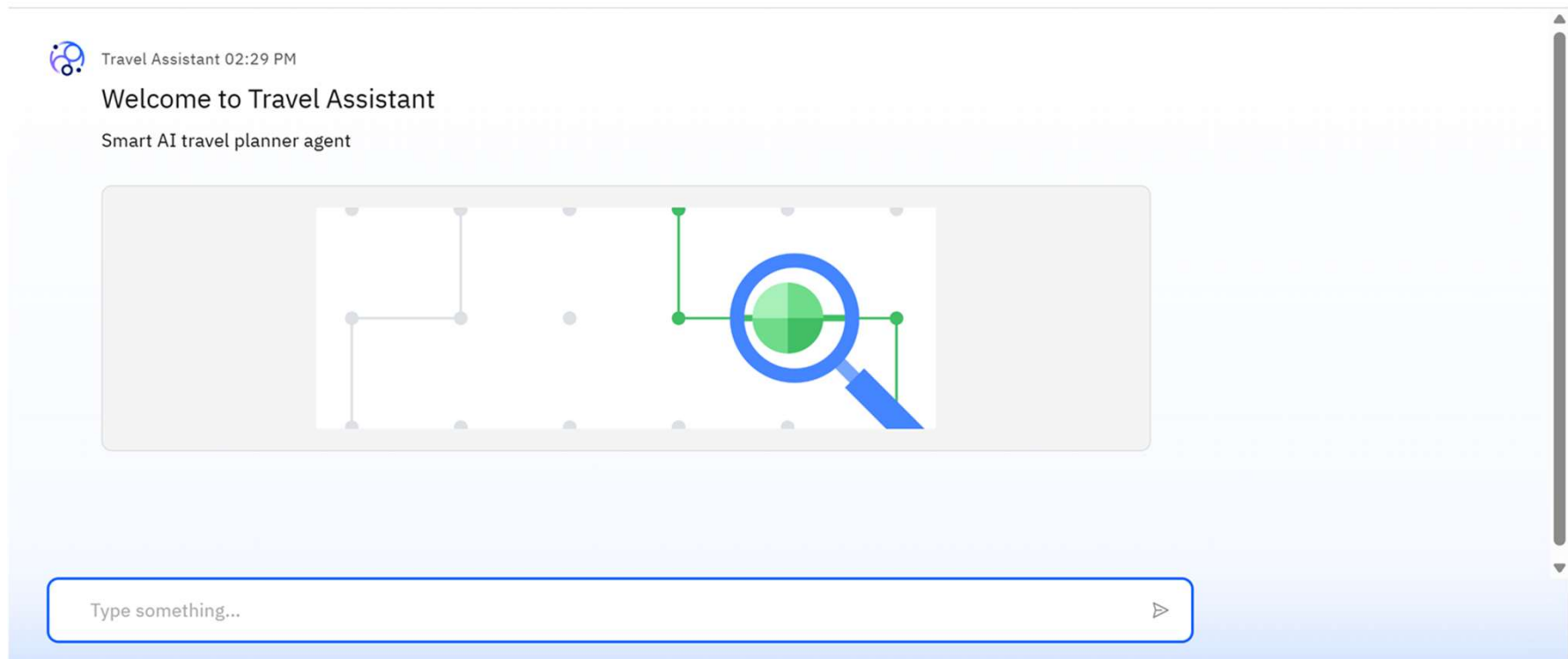
- Smart destination recommendations based on user preferences, budget, and travel season
- Auto-generated itineraries with daily activity suggestions
- Transport and accommodation planning optimized for cost and convenience
- Real-time weather insights for chosen destinations
- Budget-aware trip planning with detailed cost breakdowns
- Personalized alerts and updates (e.g., travel advisories, seasonal highlights)

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## END USERS

- Travelers,
- Tourists
- Family Vacationers
- Travel Agents
- Students
- Corporate Travelers

# RESULTS





# RESULTS



Travel Assistant 02:27 PM

Based on your preferences, I recommend visiting Berijam Lake in the Palani Hills, Tamil Nadu. It's a beautiful spot for trekking and nature lovers, and it's easily accessible from Chennai.

Here's a summary of your trip:

**Destination:** Berijam Lake, Palani Hills, Tamil Nadu

**Top Reasons:**

- Trekking and nature walks
- Scenic views of the lake and surrounding forest
- Opportunity to spot wildlife, including bison, elephants, and leopards
- Forest Department Camp and Eco-Education Center for visitors

**Transport:**

- From Chennai, take a bus or taxi to Kodaikanal ( approx. 5 hours)
- From Kodaikanal, take a bus or taxi to Berijam Lake (approx. 1 hour)

Type something...



# RESULTS

The screenshot displays the IBM Watsonx interface for a deployed chatbot named "Travel Assistant". The chatbot is in an "Online" state. The interface includes tabs for "API reference", "Test", and "Preview", with the "Preview" tab currently selected. The chat history shows a 5-day travel itinerary for Kodaikanal, including arrival, trekking, visits to the Forest Department Camp and Eco-Education Center, and a return to Kodaikanal. The chatbot also provides weather information for October and a budget estimate for the 5-day trip. The interface includes a "New chat" button and a text input field for the user to type something.

Deployment spaces / dep2 / Travel Assistant /

## Travel Assistant

Deployed Online

API reference Test Preview

New chat +

- Day 1: Arrive at Kodaikanal, check-in to the Forest Department Camp
- Day 2: Trek to Berijam Lake, explore the surrounding forest and spot wildlife
- Day 3: Visit the Forest Department Camp and Eco-Education Center
- Day 4: Trek to nearby villages, explore local culture and cuisine
- Day 5: Return to Kodaikanal, depart from Chennai

**Weather:**

- October is a great time to visit Berijam Lake, with mild temperatures and plenty of sunshine
- Be prepared for occasional rain showers and cooler evenings

**Budget:**

- Approximate budget for the 5-day trip: ₹30,000

Have a great trip! 🌍 🗺️

► How did I get this answer?

Type something...

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## CONCLUSION

- The Travel Planner Agent simplifies and automates the entire trip planning process, making travel more accessible and stress-free.
- It leverages IBM Watsonx.ai and Granite models to deliver personalized, real-time recommendations for destinations, transport, stay, and activities.
- This intelligent assistant enhances user experience by reducing manual effort, ensuring cost-effective planning, and providing smart, data-driven travel insights.

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## GITHUB LINK

- <https://github.com/Gayathri-2510/Travel-Assistant-AI-Agent>

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## FUTURE SCOPE

- Voice-based travel planning
- Real-time booking integration
- Multilingual support
- Dynamic itinerary updates
- Integration with AR/VR for virtual previews

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## IBM CERTIFICATIONS

# Getting Started with Artificial Intelligence

IBM **SkillsBuild**



IBM

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

gayathri v

for the completion of

**Lab: Retrieval Augmented Generation with  
LangChain**

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

**Completion date:** 18 Jul 2025 (GMT)

**Learning hours:** 20 mins



**THANK YOU**