
IBM HACKATHON PROJECT

TRAVEL PLANNER AGENT

Presented By

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OUTLINE

- Problem Statement
- Proposed system/Solution
- Technology Used
- Algorithm & Deployment
- Result
- Conclusion
- Future scope
- IBM Certifications

PROBLEM STATEMENT

- In today's fast-paced world, planning a trip involves managing multiple elements — selecting destinations, finding the best travel routes, booking accommodations, estimating budgets, and organizing daily itineraries. Most travelers rely on scattered sources like travel websites, weather apps, and booking platforms, making the planning process time-consuming and inefficient.
- There is a pressing need for an intelligent, integrated solution that can streamline and personalize the travel planning experience. The current lack of such a unified platform often leads to disorganized plans, budget overruns, missed opportunities, and reduced overall satisfaction for travelers.

PROPOSED SOLUTION

To address the complexities and inefficiencies in modern travel planning, we propose developing an **AI-powered Travel Planner Agent** — an intelligent, user-centric application that automates and personalizes the entire trip planning process.

Goals of the System:

User Input & Preference Analysis

Smart Destination & Itinerary Recommendation

Real-time Data Integration

Budget Optimization & Planning

Personalized Dashboard

Additional Features (Optional/Future Scope)

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

ALGORITHM & DEPLOYMENT

The Eco Lifestyle Agent uses **RAG (Retrieval-Augmented Generation)** with **IBM Granite** to provide personalized, real-time eco-guidance.

Algorithm Used:

- The system uses **Retrieval-Augmented Generation (RAG)** with **IBM Granite** to provide real-time, personalized eco-guidance by retrieving relevant content and generating natural responses

Data Input:

- User queries in natural language
- Curated eco-content: tips, recycling info, government schemes

Process Flow:

- Embed user query
- Retrieve top-matching eco documents
- Generate context-aware response using IBM Granite
- Display suggestion with optional sources

Deployment Tools:

- IBM Watsonx AI Studio
- IBM Watsonx AI Runtime
- IBM Cloud Agent Lab IBM Granite Foundation Model

RESULT

dataplatfom.cloud.ibm.com/wx/agents?context=wx&project_id=cd702c3f-104d-4bb9-a550-000886b75468

IBM watsonx

Upgrade



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Dallas

FP

jects / FIRDOS FATHIMA's sandbox / Agent Lab

Share feedback



Unsaved



New agent +

Deploy



Build

AI

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

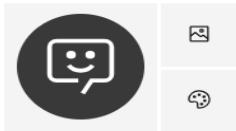


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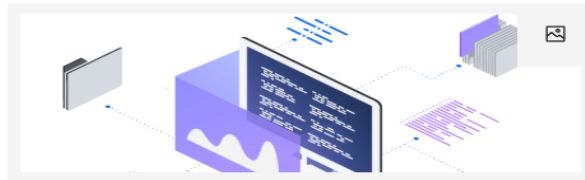
100/100

Aims to develop an intelligent virtual assistant that enhances financial awareness and digital safet

Icon



Placeholder image



Quick start questions

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



What is the main objective of your Travel Planner Agent?



How do you ensure personalization for each user?



Agent preview



You: 10:14 PM

What is the main objective of your Travel Planner Agent?



FinAdvisor 10:14 PM

The main objective of the Travel Planner Agent is to help users create personalized travel itineraries. It is an AI-powered application built on the Akka SDK that connects to its LLM (Large Language Model) to provide users with tailored travel recommendations. The agent's goal is to cultivate a global network of contacts, including tour operators, hoteliers, and local experts, to enhance travel agency services. Additionally, the agent aims to define its ideal audience, optimize its marketing efforts, and provide exceptional customer service to its clients.

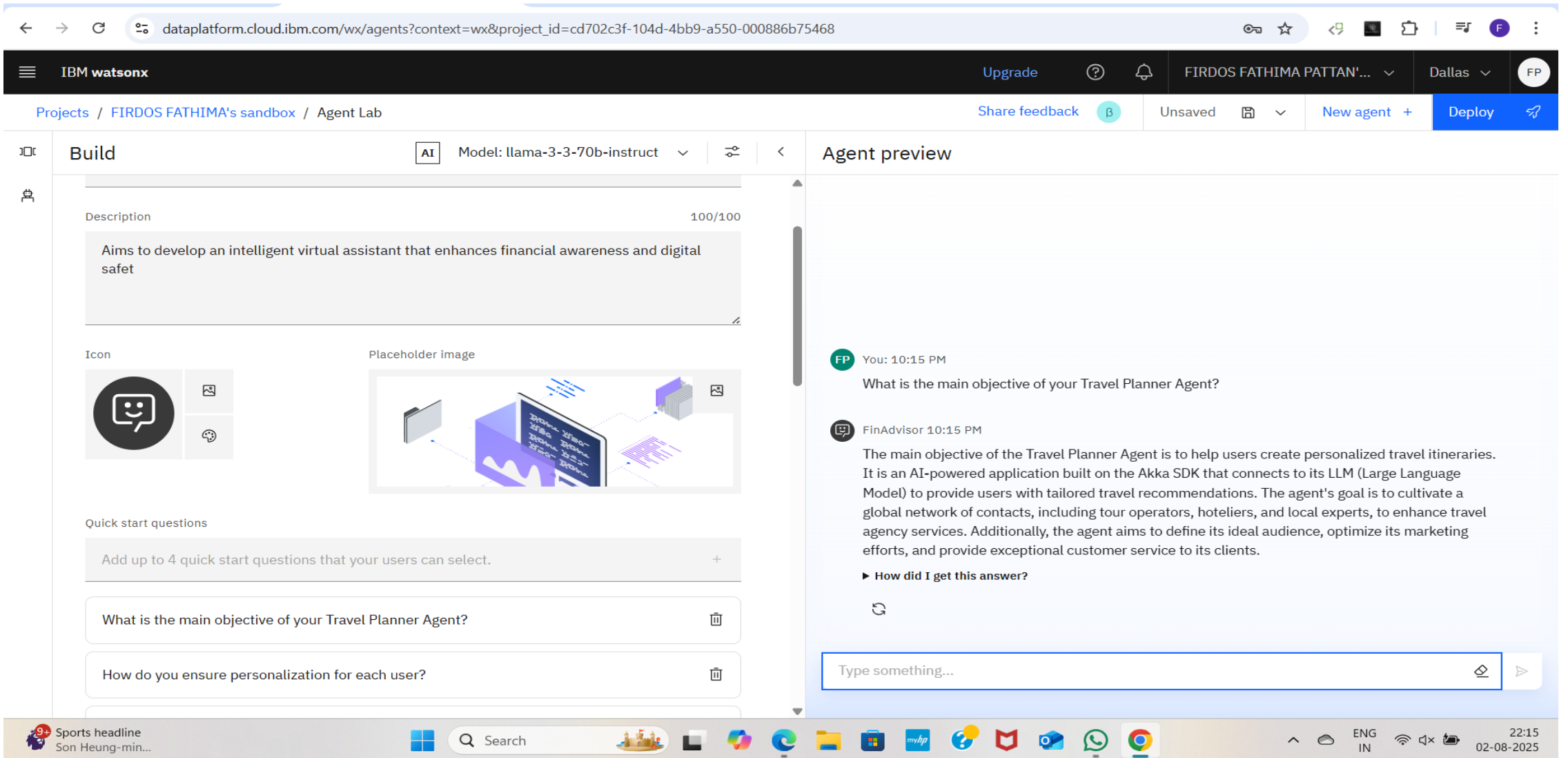
► How did I get this answer?



Type something...



RESULT



RESULT

86b75468

Upgrade

?

🔔

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Dallas

FP

Share feedback

β

Unsaved

📁

New agent +

Deploy

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▶ How did I get this answer?

🔄

Type something...

🗑️

➤

RESULT

Deployed AI Agent

→ dataplatform.cloud.ibm.com/wx/agents?context=wx&project_id=cd702c3f-104d-4bb9-a550-000886b7

IBM watsonx

Projects / FIRDOS FATHIMA's sandbox / Agent Lab

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

Description 100/100


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Icon

Placeholder image

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CONCLUSION

#.The Travel Planner Agent presents an innovative and efficient solution to the challenges faced by modern travelers. By integrating artificial intelligence with real-time data sources such as weather updates, map services, and booking platforms, this system simplifies the entire trip planning process—from destination discovery to itinerary generation and budget optimization.

#.Through personalized recommendations based on user preferences and constraints, the agent enhances travel experiences by reducing manual effort, saving time, and minimizing planning errors. It serves as a smart, all-in-one assistant that adapts to individual needs, making travel more organized, enjoyable, and stress-free.

FUTURE SCOPE

- Integration with Booking Platforms
- AI-Powered Chat Assistant
- Voice Assistant Compatibility
- Emergency Assistance & Safety Features
- Local Experience Integration
- Multi-Device Syncing

IBM CERTIFICATIONS

In recognition of the commitment to achieve
professional excellence



Firdos Fathima pattan

Has successfully satisfied the requirements for:

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Completion Certificate



This certificate is presented to
Firdos pattan Firdos pattan

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LangChain**

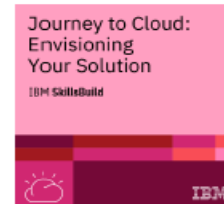
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