CAPSTONE PROJECT

TRAVEL PLANNER AGENT

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OUTLINE

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



PROBLEM STATEMENT

Travel Planner Agent – Al-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

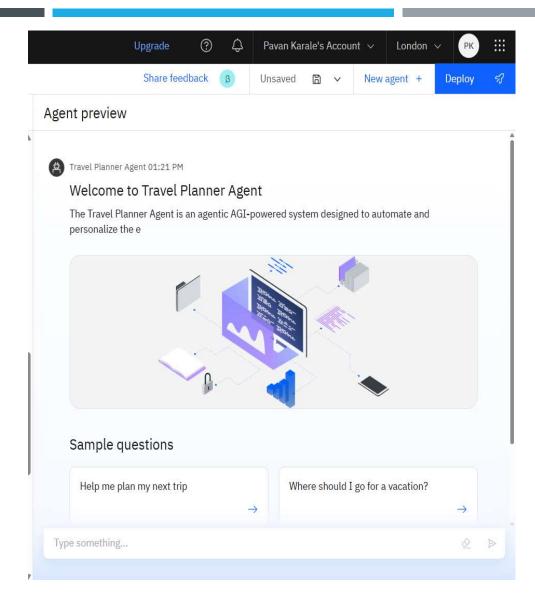
- Al-Powered Personalization
 Tailors itineraries based on user preferences, budget, and travel history using IBM Granite Model.
- Real-Time Suggestions
 Dynamically recommends destinations, transport, and accommodation with live data feeds.
- Integrated Weather & Maps
 Provides weather-aware travel 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.



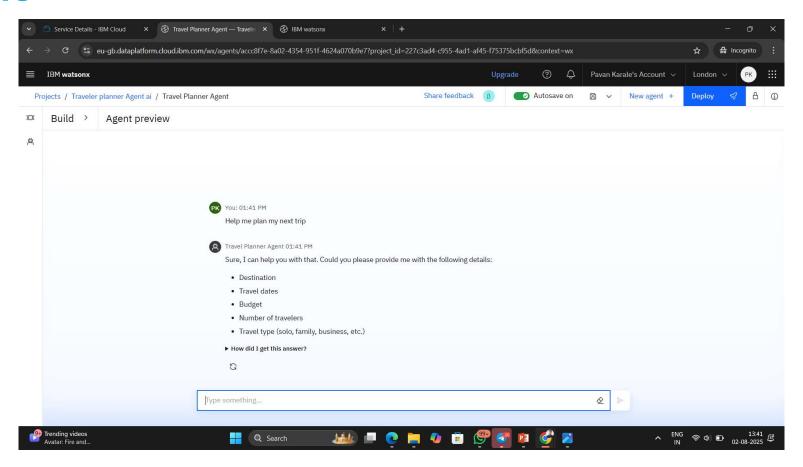
END USERS

□Individual	Travelers	For	planning	personal	or fan	nily vacations
effortlessly.						
☐Travel Age clients.	ncies – To	automa	te and en	hance trip	planning	g services for
□Corporate schedules.	Employees	– For	organizing	g business	trips v	with optimized
☐Tour Operat	t ors – To off	fer guide	d, smart itii	neraries for	group t	ours.
□ Backpackeı travel planni		Traveler	s – For b	oudget-frien	ıdly, flex	kible, real-time

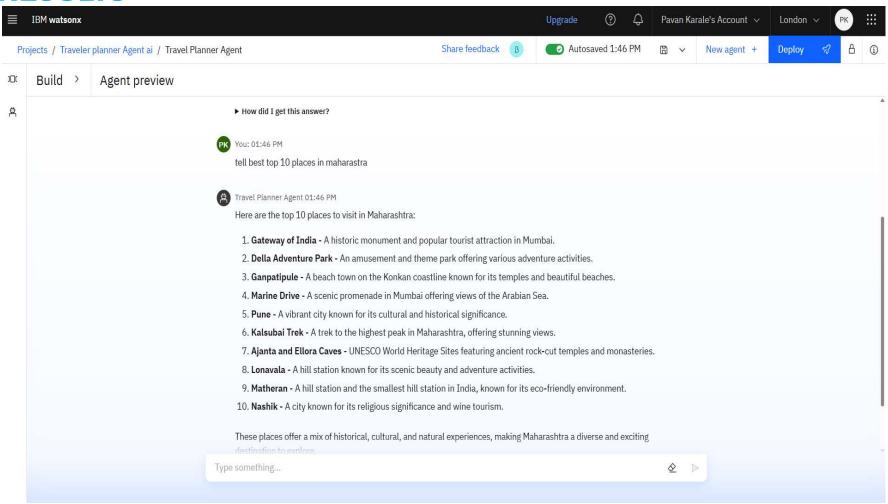






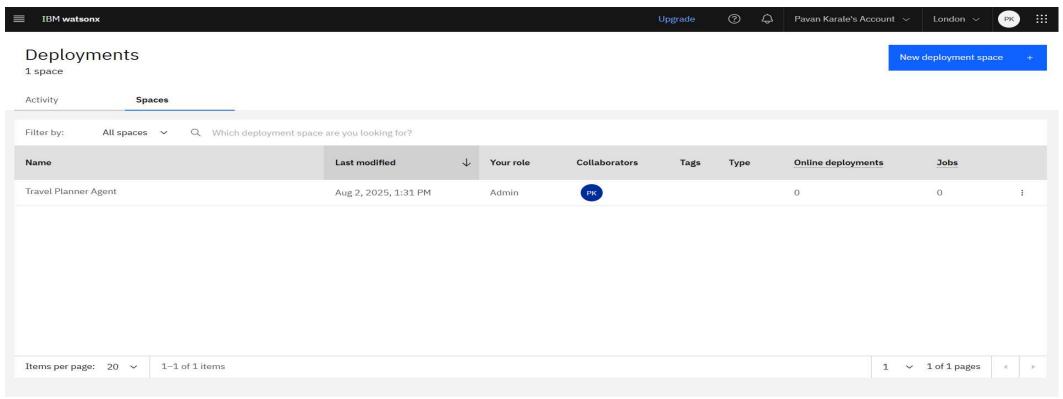








Deployed Al Agent





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)

IBM SkillsBuild

Completion Certificate



This certificate is presented to

Pavan Karale

for the completion of

Getting Started with Artificial Intelligence

(PLAN-E624C2604060)

According to the Your Learning Builder - Plans system of record

Completion date: 16 Jul 2025 (GMT)



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

