### IBM HACKATHON PROJECT

## TRAVEL AI AGENT

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## **OUTLINE**

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# PROBLEM STATEMENT

- Navigating the college admission process is often overwhelming for students. Institutional websites are cluttered, FAQs are outdated, and staff are overloaded with repetitive inquiries. Our solution: a College Admission Agent, powered by IBM Granite and Retrieval-Augmented Generation (RAG), deployed on IBM Cloud Lite.
- This intelligent assistant retrieves and summarizes institutional data admission policies, eligibility criteria, fee structures, deadlines, and more. Students can ask natural questions and get real-time, accurate answers, 24/7. It simplifies admissions, enhances transparency, and transforms applicant engagement.



# TECHNOLOGY USED

- IBM Granite LLM for natural language understanding and response generation
- RAG (Retrieval-Augmented Generation) to fetch and ground responses in real-time institutional documents
- IBM Cloud Lite for serverless deployment, storage, and service orchestration
- Prompt Lab & Agent Builder to design, test, and deploy the agent
- Watson Discovery / Vector DB (optional) for semantic search and retrieval of structured data



## **WOW FACTORS**

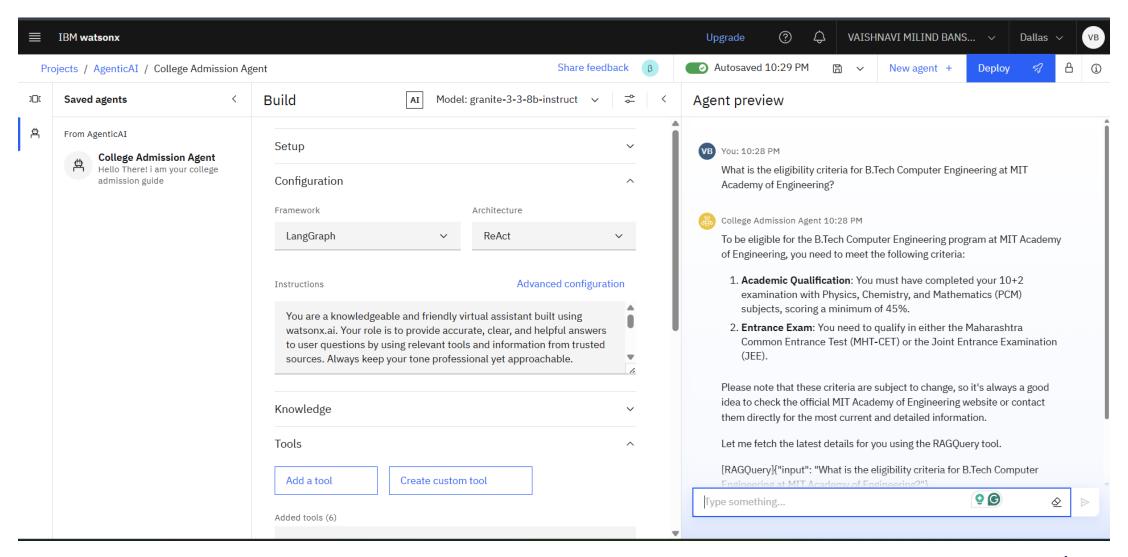
- Natural Language Interface: Students ask questions like "What are the hostel fees for B.Tech?" and receive exact, sourced answers.
- Tool-Using AI: Not just trained on fixed data—it retrieves updated information on demand.
- Always Available: No waiting, no email chains. Information is instant, consistent, and interactive.
- Built Entirely on IBM Stack: A showcase of how IBM Granite and Cloud Lite can solve real-world problems.



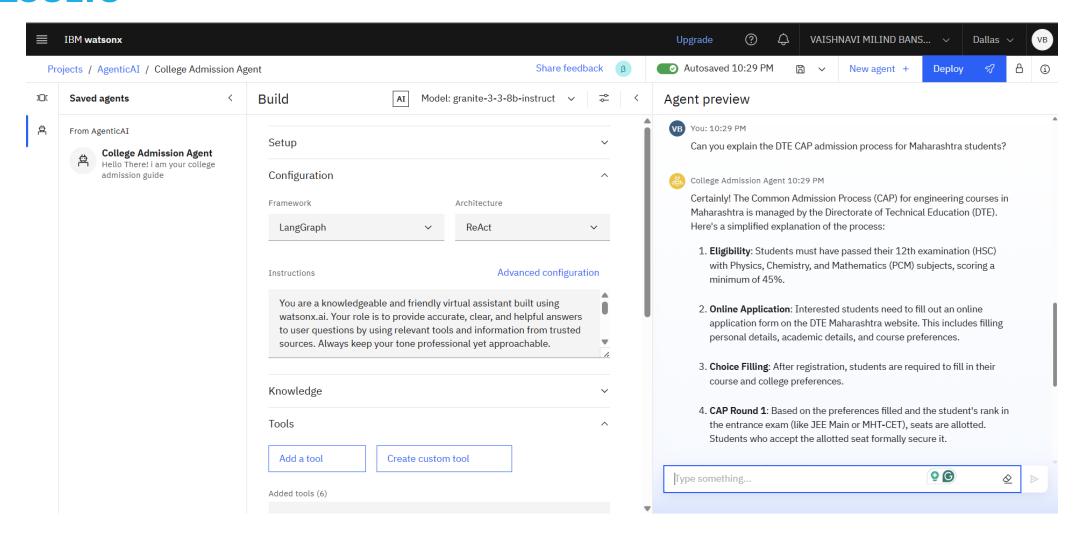
#### **END USERS**

- Prospective students and parents seeking transparent guidance
- College admission departments to reduce inquiry workload
- Universities and education consultants to integrate AI into their admission workflow
- EdTech platforms aiming to simplify institutional data access

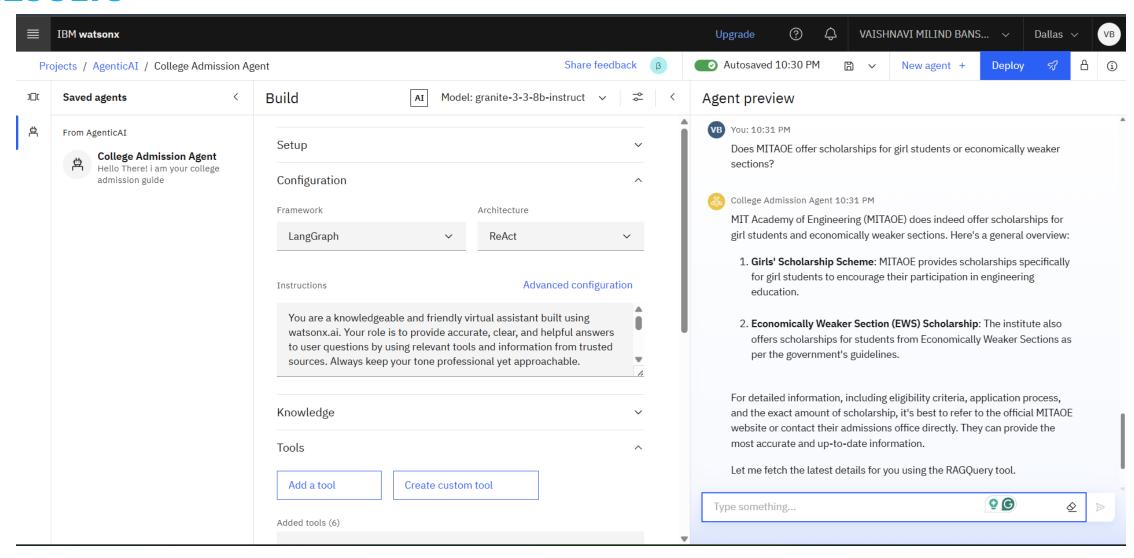






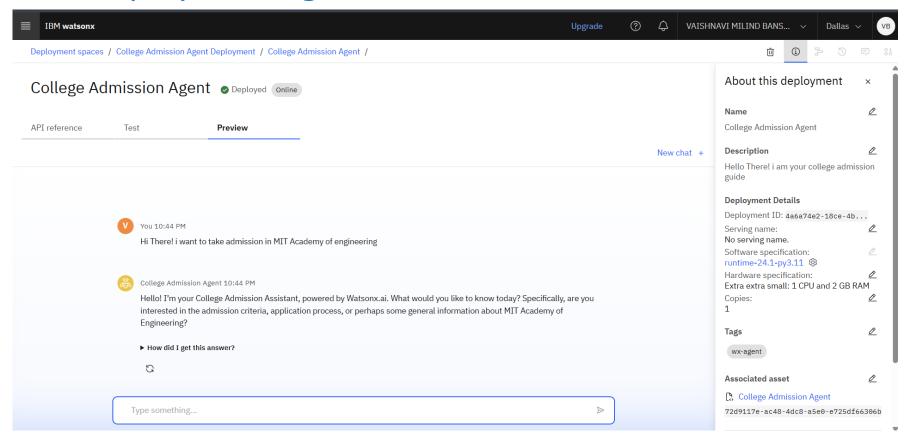








## Deployed AI Agent





#### CONCLUSION

Our College Admission Agent proves that IBM's Granite models and Cloud Lite services can power real, transformative applications. From admission guidance to deadline tracking, this assistant makes the journey easier, faster, and smarter—for both students and institutions.



## **GITHUB LINK**

GITHUB link



## **FUTURE SCOPE**

- Multilingual support for regional and international students
- Integration with college ERPs and CRM tools
- Personalized recommendations using academic history or interests
- Voice-interaction layer using Watson Speech-to-Text
- Admin dashboard for live analytics and question trends



#### **IBM CERTIFICATIONS**

In recognition of the commitment to achieve professional excellence



# vaishnavi bansode

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 19, 2025 Issued by: IBM SkillsBuild

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This certificate is presented to

#### VAISHNAVI MILIND BANSODE

for the completion of

# Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record

Completion date: 25 Jul 2025 (GMT)

Learning hours: 20 mins



## **THANK YOU**

