#### IBM AICTE INTERSHIP PROJECT

#### **COLLEGE ADMISSION AGENT**

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## OUTLINE

- > Problem Statement
- > Technology used
- > Wow factor
- **End users**
- > Result
- **Conclusion**
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- > Future scope
- > IBM Certifications



#### PROBLEM STATEMENT

A College Admission Agent, powered by RAG (Retrieval-Augmented Generation), streamlines the student admission process. It retrieves and summarizes admission policies, eligibility criteria, and FAQs from institutional databases and official sources. Prospective students can ask natural language questions and receive accurate, up-to-date responses instantly.

#### Proposed Solution:

The agent helps with course selection, application guidance, fee structure, and important deadlines. Using trusted, real-time data, it reduces manual inquiries and enhances applicant experience. This AI-driven assistant boosts transparency, accessibility, and efficiency in college admissions.



## **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



# **WOW FACTORS**

- > Uses real-time institutional data to answer queries about eligibility, deadlines, fees, etc.
- > Removes the need to browse multiple pages—answers are accurate, trustworthy, and to the point
- > Supports Indian languages (e.g., Hindi, Marathi, Tamil) to make the system inclusive and accessible to rural and semi-urban applicants.
- ➤ Always-on, AI-powered chat that mimics a helpful admission counselor, even outside office hours.
- ➤ Based on user interests, scores, budget, and location preferences, the agent recommends best-fit institutions and programs.

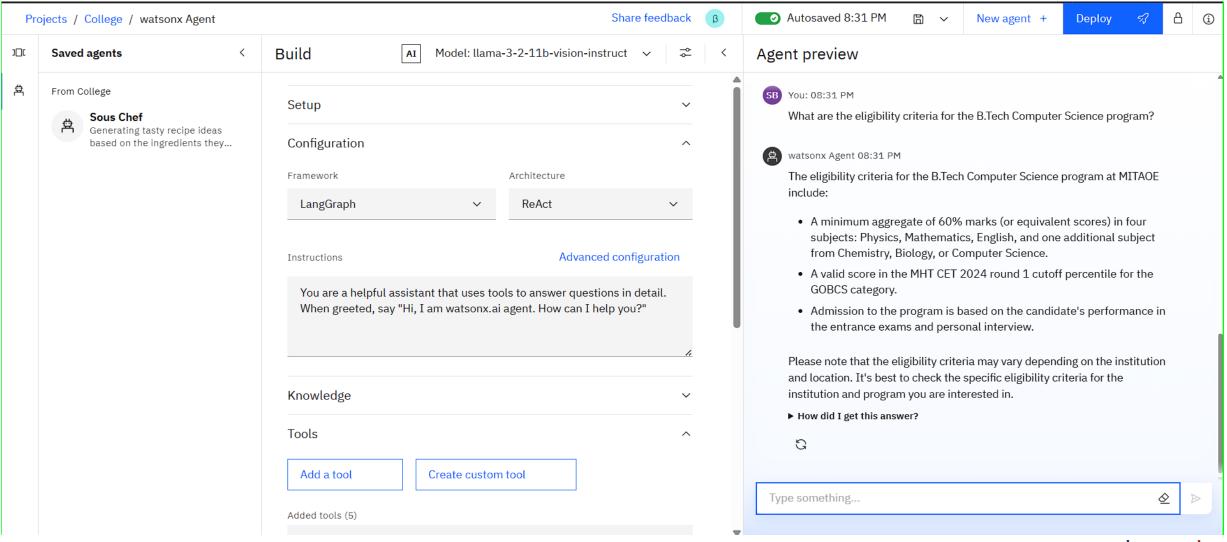


# **END USERS**

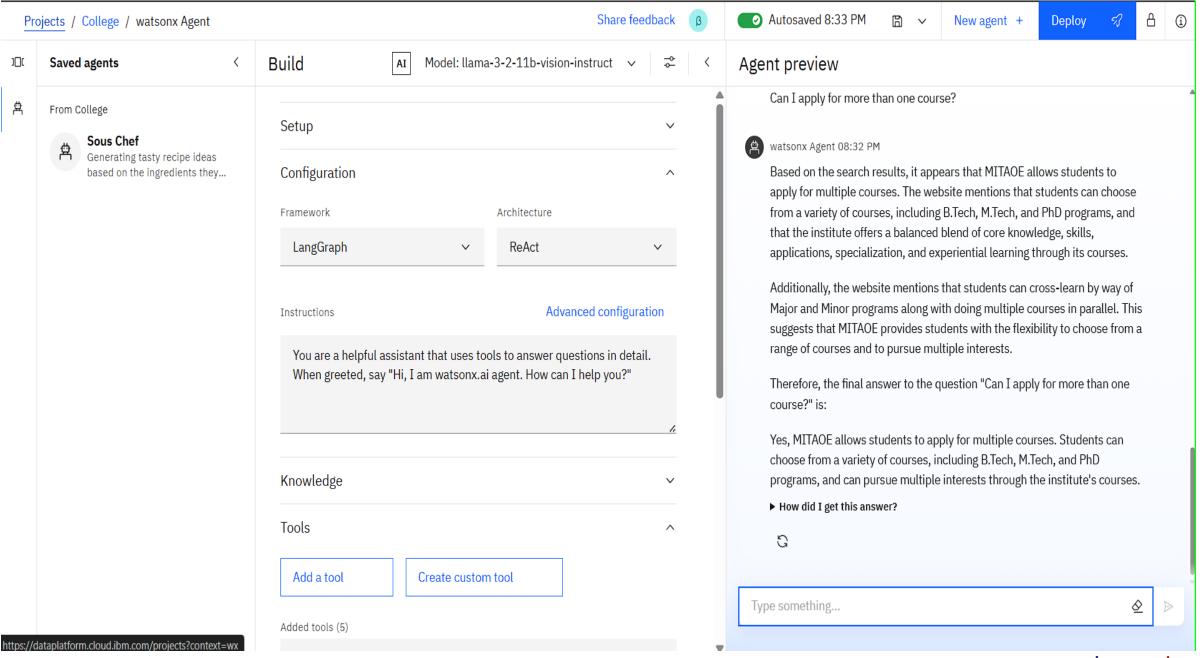
- > Academic Researchers
- > Research Institutions and Universities
- > Students
- > Parents
- College Admission Officers
- Government Education Departments



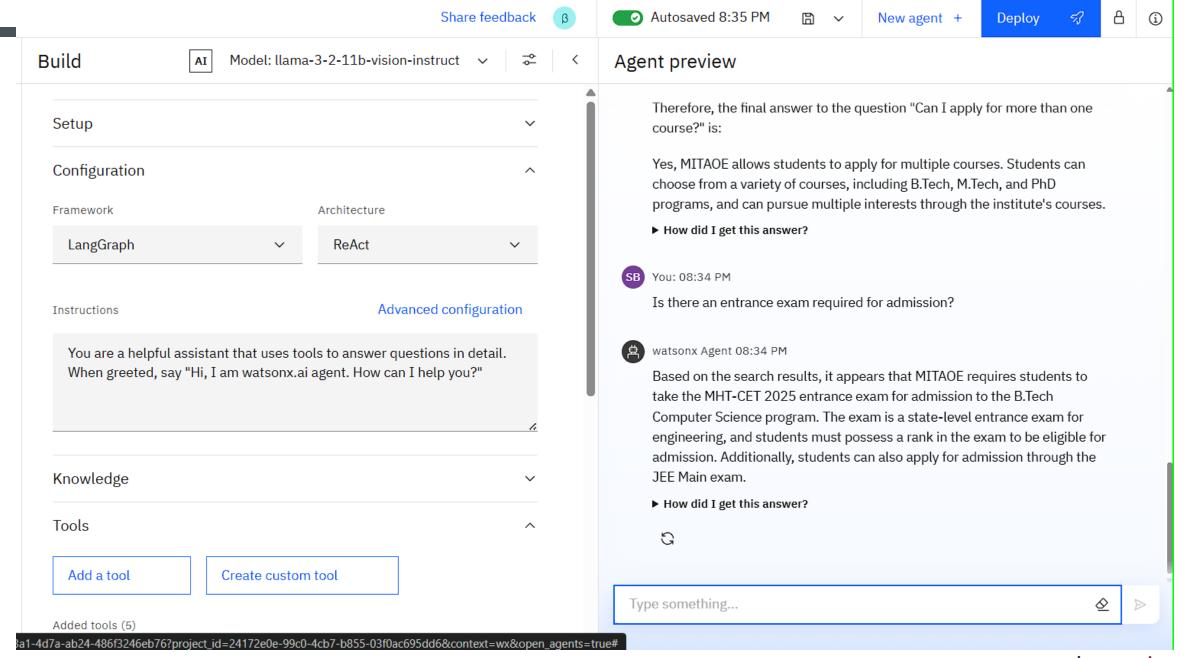
#### **RESULTS**



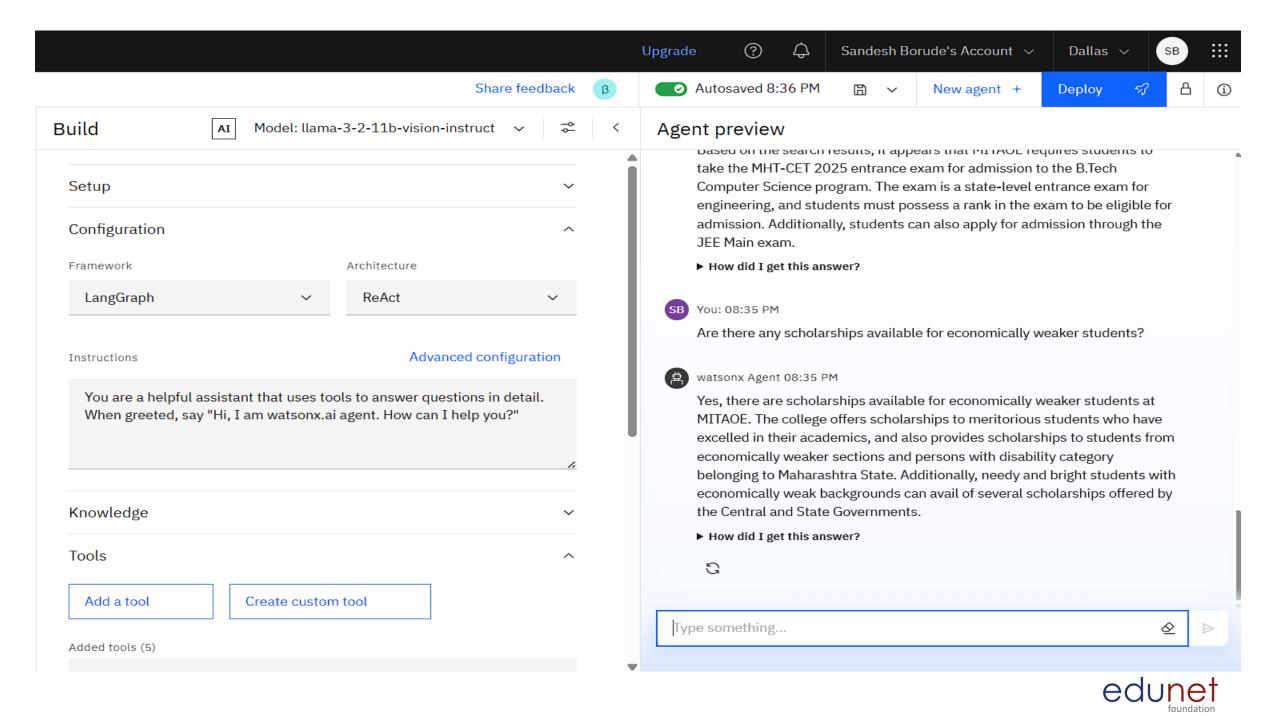


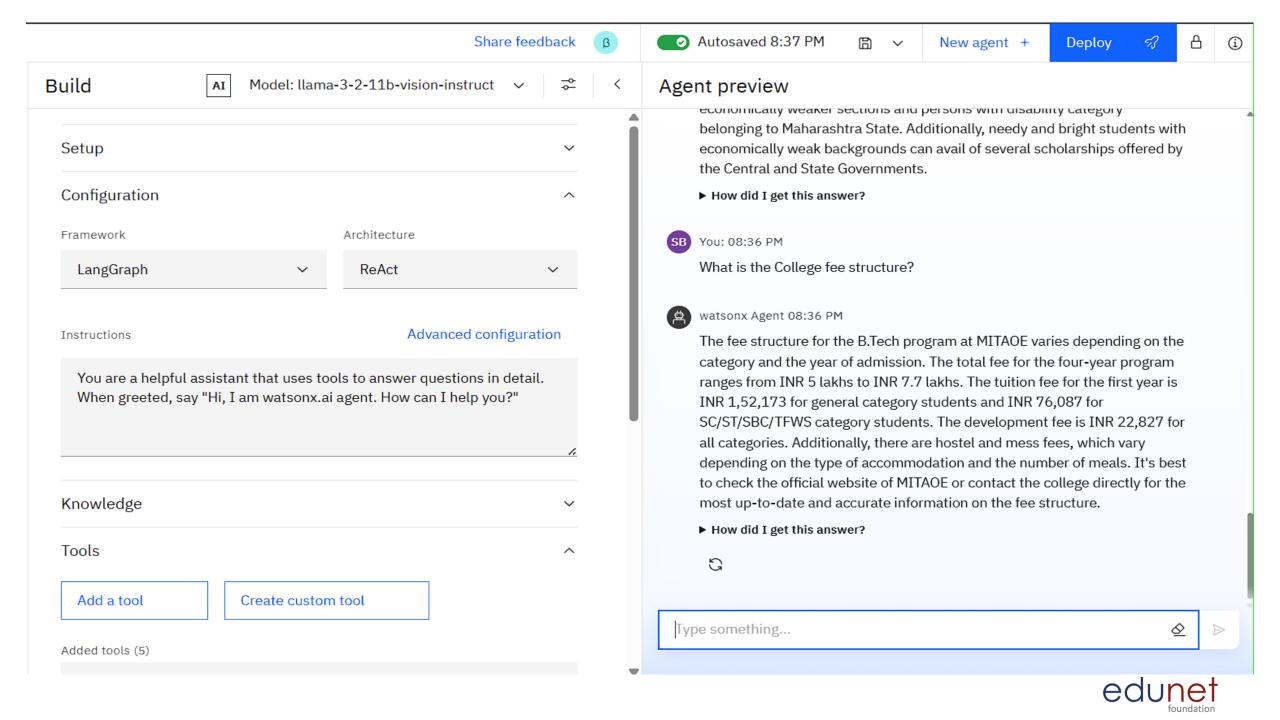


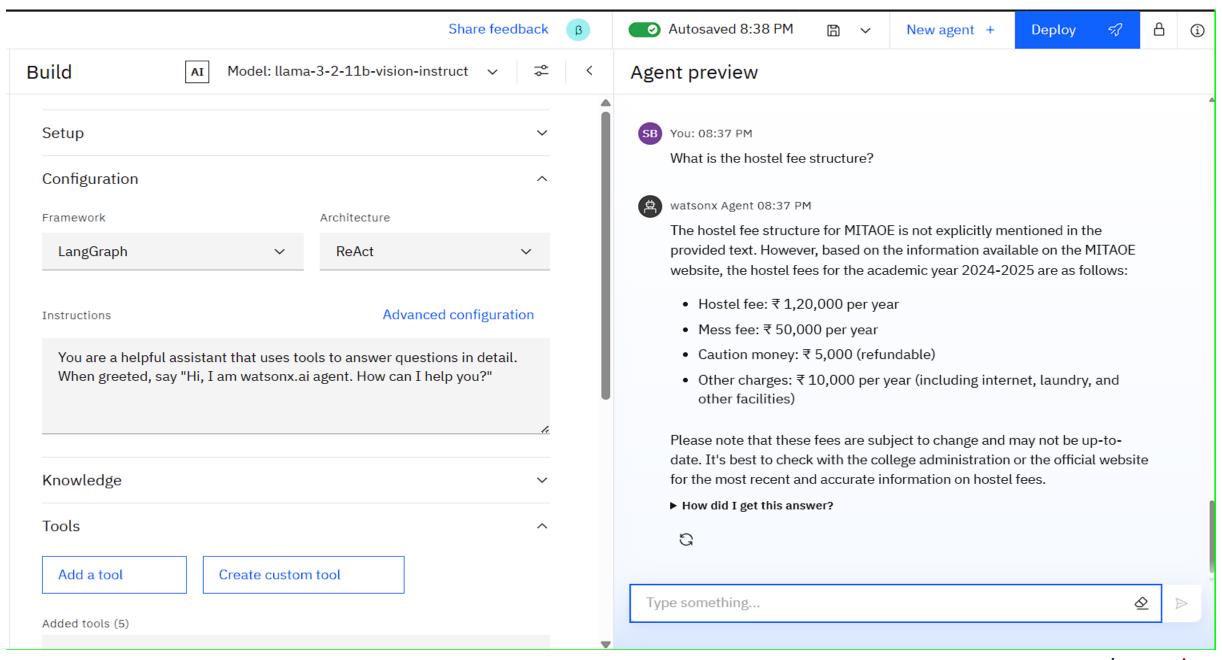




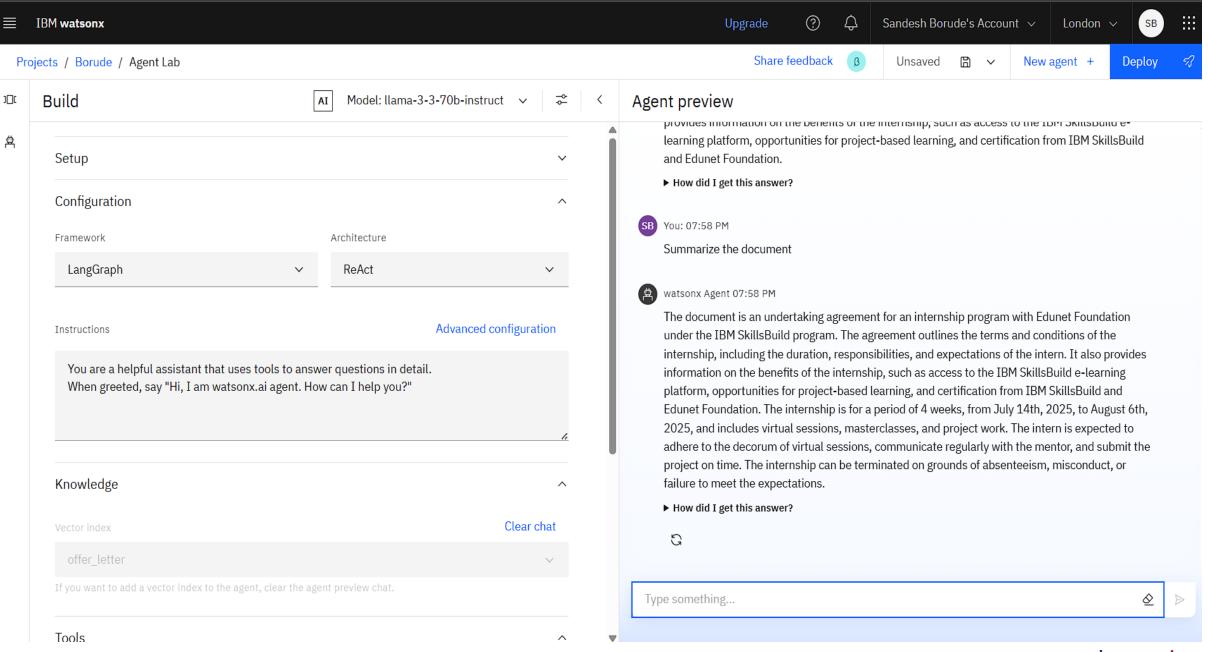




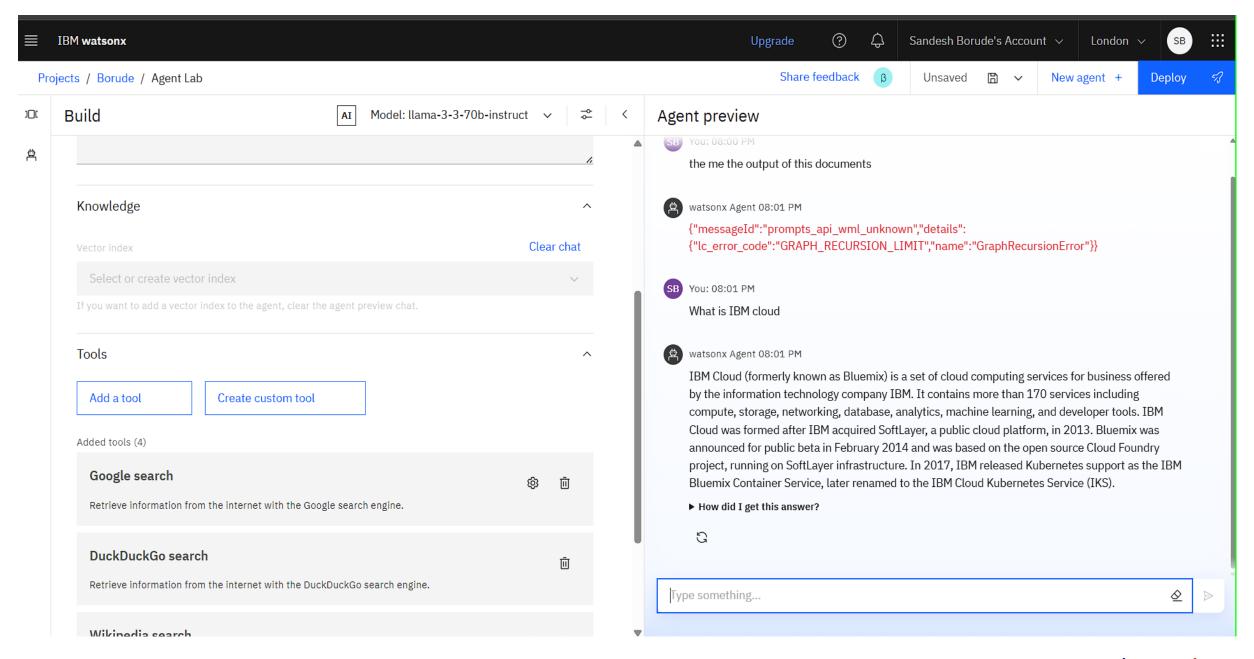














## CONCLUSION

The College Admission Agent, powered by Retrieval-Augmented Generation (RAG), represents a transformative step toward modernizing and simplifying the student admission journey. By providing real-time, accurate, and personalized information directly from trusted institutional sources, it eliminates confusion, reduces manual effort, and enhances transparency in the admission process.

With intelligent natural language understanding, 24/7 availability, and multilingual support, the agent empowers students, parents, and educators alike—bridging the information gap and ensuring equal access to educational opportunities. For institutions, it serves as a digital admission counselor, streamlining communication and delivering actionable insights through analytics.



# **GITHUB LINK**

https://github.com/borudesandesh/College-Admission-Al-Agent-/projects?query=is%3Aopen



#### **FUTURE SCOPE**

- > Academic Calendar & Publication Reminder
- > Multilingual Research Support
- > Voice-Activated Research Assistant
- > Real-Time Collaboration Features
- > AI-Powered Paper & Project Drafting Assistant



## **IBM CERTIFICATIONS**

In recognition of the commitment to achieve professional excellence



#### Sandesh Borude

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



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#### IBM SkillsBuild

#### Completion Certificate



This certificate is presented to

Sandesh Borude

for the completion of

# Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE\_3824998)

According to the Adobe Learning Manager system of record



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## Sandesh Borude

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution



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#### **THANK YOU**



