IBM HACKATHON PROJECT

COLLEGE ADMISSION AGENT

Presented By:

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College Name & Department : Malla Reddy Engineering College For

Women – Computer Science and Engineering



OUTLINE

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PROBLEM STATEMENT

- The admission process in most colleges is often complex and time-consuming for prospective students and their parents. Information regarding courses, eligibility criteria, fee structures, and application procedures is usually spread across multiple sources, making it difficult for applicants to find accurate details quickly. This leads to confusion, repeated inquiries, and delays in decision-making.
- Manual support from admission staff is often not scalable during peak admission periods. Staff spend a significant amount of time answering the same queries repeatedly, which increases workload and reduces efficiency. There is a pressing need for a smart, automated system that can instantly respond to common admission queries while maintaining accuracy and consistency.



TECHNOLOGY USED

- IBM Cloud Lite Plan
- IBM Watsonx Assistant (Agent AI)
- Retrieval-Augmented Generation (RAG)
- IBM Granite Model
- Vector Index
- GitHub



IBM CLOUD SERVICES USED

- IBM Watsonx Assistant (Agent AI)
- IBM Watsonx AI Studio
- IBM Watsonx AI Runtime
- IBM Granite Model



WOW FACTORS

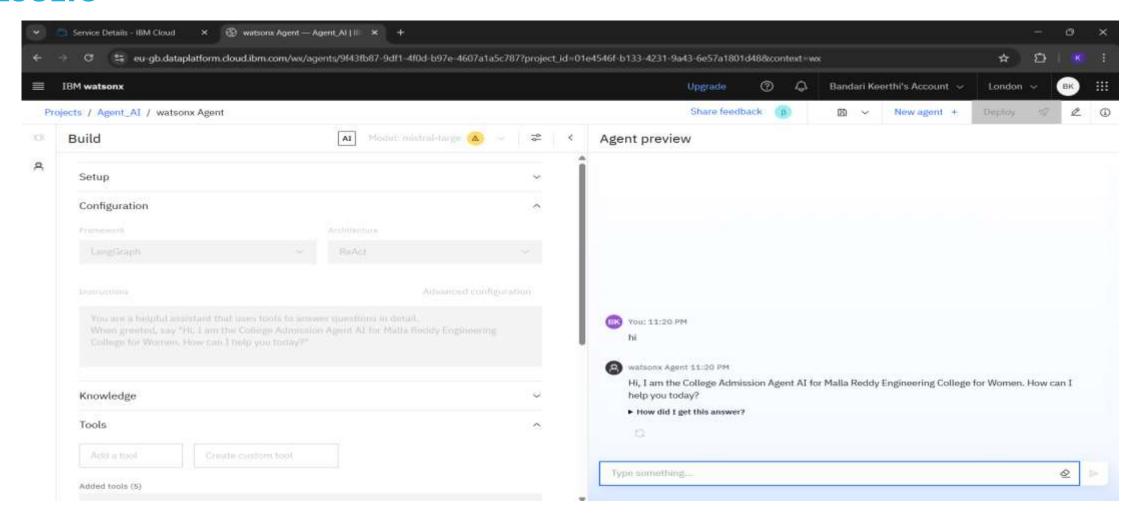
- The College Admission Agent stands out as a 24/7 virtual assistant, providing students and parents with instant access to admission-related information at any time. By using Retrieval-Augmented Generation, it ensures that all responses are accurate, reliable, and taken directly from verified institutional documents.
- Its interactive and user-friendly design makes navigation simple, allowing users to quickly find details about courses, fees, eligibility, and the application process. The assistant significantly reduces the workload of college admission staff by automating repetitive queries, ensuring consistent communication with all applicants. Its scalable nature allows for future enhancements, such as multilingual support, voice integration, and real-time admission status tracking.



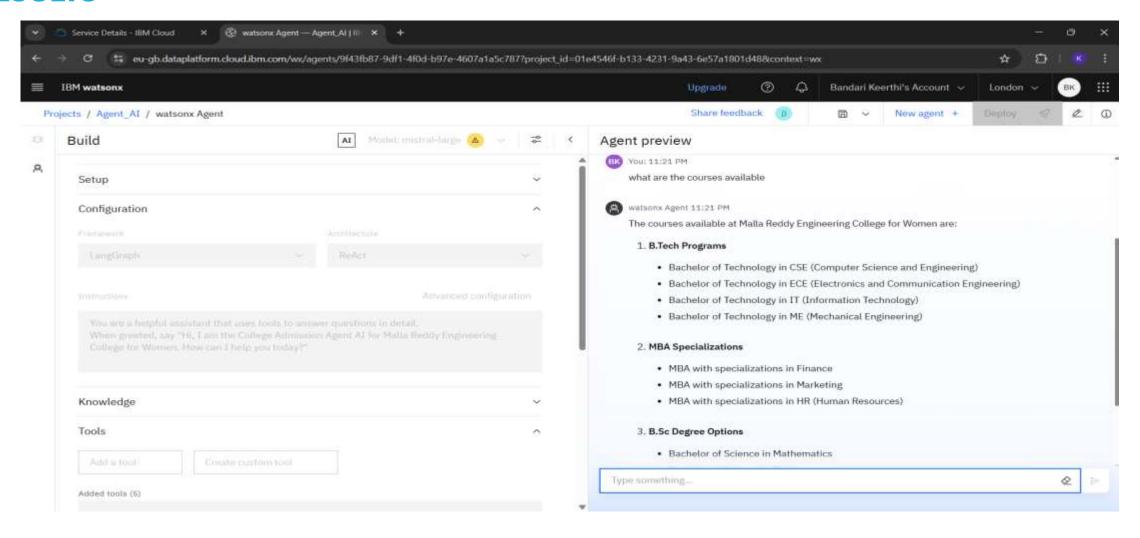
END USERS

- Prospective Students
- Parents & Guardians
- College Admission Staff

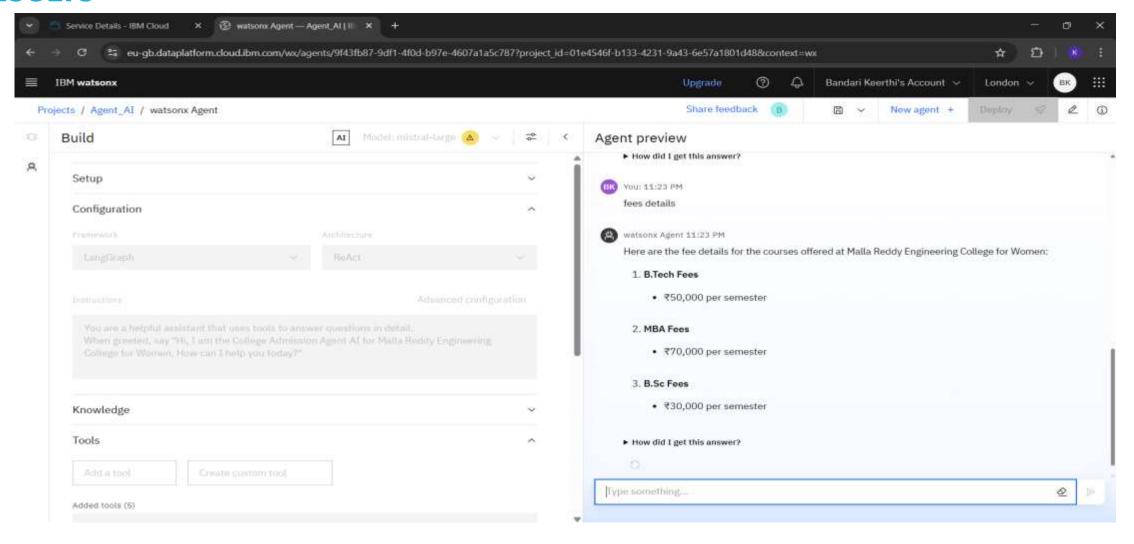






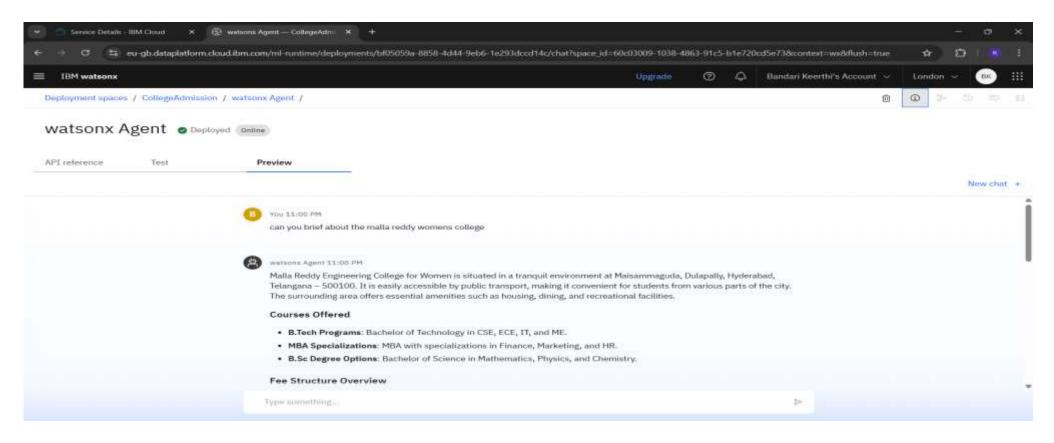








Deployed Al Agent





CONCLUSION

- The College Admission Agent AI, developed using IBM Watsonx Assistant, functions as an intelligent conversational system designed to guide prospective students through the admission process. Acting as a chatbot, it responds to queries about courses, fees, eligibility, and application procedures in real time, ensuring accurate and consistent communication.
- This Agent AI reduces manual work for admission staff, improves transparency, and enhances the overall applicant experience. With its scalable design, the Agent AI can be expanded in the future to support multilingual communication, voice-based interaction, and real-time seat availability tracking, making it even more accessible and efficient.



GITHUB LINK

GitHub Repository:

All project files (PPT, Vector Index document, screenshots, and deployment link) are available at: https://github.com/keerthibandari167/College-Admission-Agent-Al



FUTURE SCOPE

- Multilingual Support for Admission Queries
- Voice-Activated Assistance for Students
- Real-Time Integration with College Databases
- Automated Updates on Seat Availability and Deadlines
- Integration with College Website & Mobile App
- Al-Driven Personalized Course Recommendations



IBM CERTIFICATIONS

In recognition of the commitment to achieve professional excellence



Bandari Keerthi

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence



Issued on: Jul 15, 2025 Issued by: IBM SkillsBuild







Completion Certificate | SkillsBuild

IBM SkillsBuild

Completion Certificate



This certificate is presented to

Bandari Keerthi

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 24 Jul 2025 (GMT)

Learning hours: 20 mins



THANK YOU

