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# **CAPSTONE PROJECT**

## **COLLEGE ADMISSION AGENT**

**Presented By**  
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**College Name & Department : MIT Academy Of**  
**Engineering(Software Department)**

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## OUTLINE

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

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# PROBLEM STATEMENT

Many students and parents struggle to get clear, timely answers about college admissions. Information is often scattered across multiple sources, leading to confusion and missed deadlines. Admission offices also spend a lot of time responding to repetitive queries.

Our Proposed Solution: We're building a College Admission AI Agent, AdmissionAgent; powered by Retrieval-Augmented Generation (RAG). It pulls information directly from official college databases and policies, then uses AI to deliver instant, accurate answers to students' questions— helping with course selection, eligibility checks, fee details, and application guidance.

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# TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model

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## IBM CLOUD SERVICES USED

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model
- Provided model : llama-3-2-90b-vision-instruct

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## WOW FACTORS

Unlike static FAQ pages or chatbots with pre-set answers, our agent can handle complex, multi-step questions instantly. It summarizes large documents, provides personalized guidance, and ensures students always have the latest, most reliable information—all in a conversational experience.

Unique features:

- o Real-Time, Verified Information – Unlike generic chatbots, this agent retrieves answers directly from official college databases and documents, ensuring responses are always accurate and up to date.
- o Personalized, Multi-Document Summaries – Handles complex queries (e.g., “Which programs can I apply to with a 3.5 GPA and what are the fees?”) by searching multiple sources and giving tailored, concise summaries.
- o Seamless Conversational Guidance – Provides step-by-step help for the entire admission journey—from course selection to application submission—mimicking a human admission counselor.
- o Efficiency for Colleges – Reduces repetitive inquiries for staff by automating FAQs and eligibility checks, freeing them to focus on higher-value tasks like counseling and decision-making.

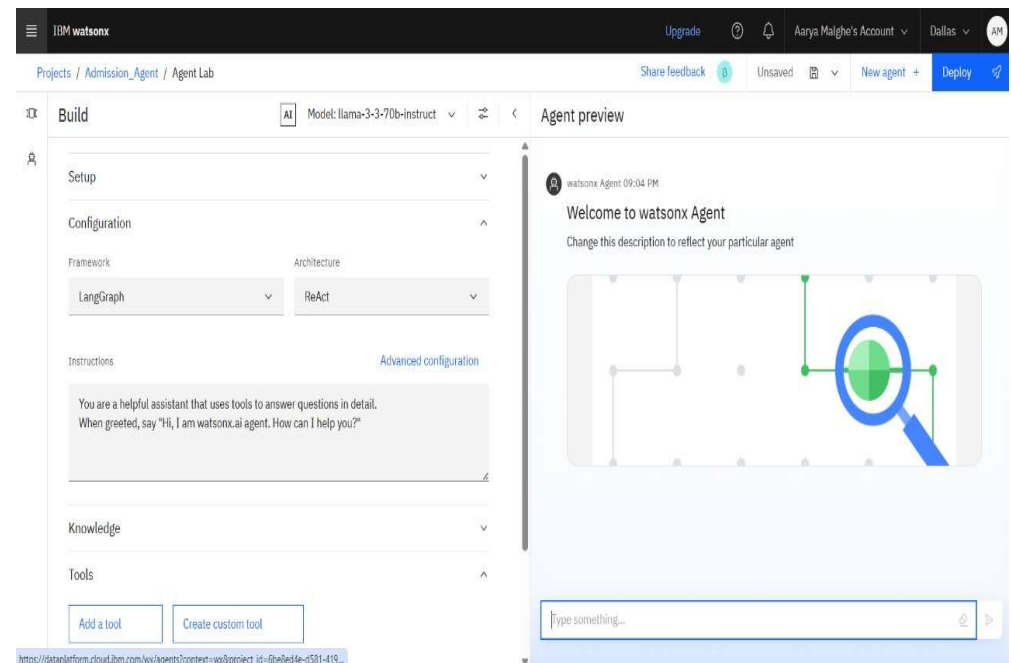
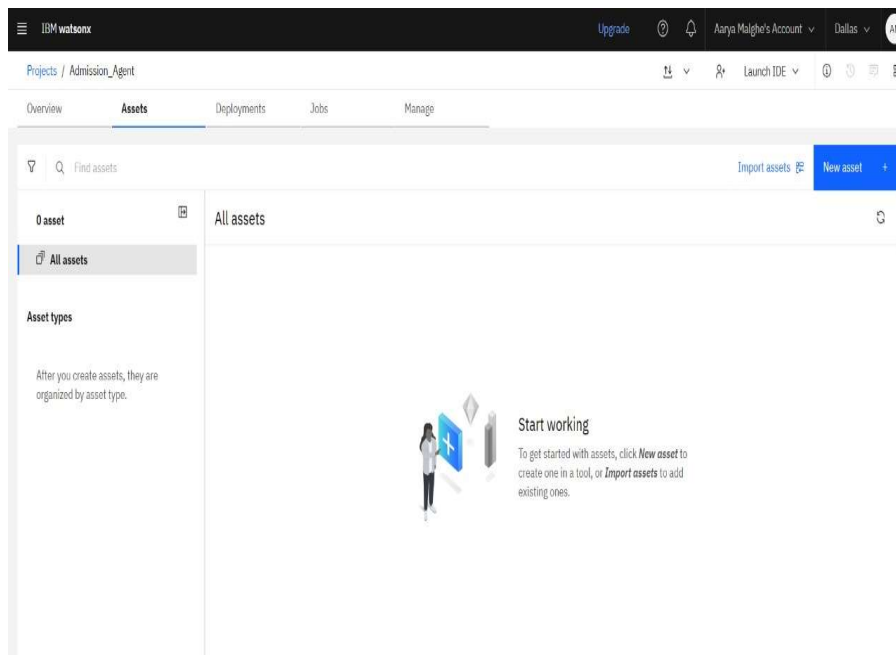
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## END USERS

- ☐ Prospective Students: Get instant, reliable answers about admissions.
- ☐ Parents/Guardians: Understand fee structure and deadlines.
- ☐ College Administrators: Reduced repetitive inquiries, better resource allocation

# RESULTS

## Setting Up the IBM Agent Lab





# RESULTS

## Agent preview



You: 09:11 PM

Can you give me a brief, step-by-step overview of the admission process?



Admission Agent 09:11 PM

The admission process typically involves the following steps:

1. **Eligibility Criteria:** Check the eligibility criteria for the desired program, which may include minimum marks in Class 12 or undergraduate degree, relevant subject combinations, and entrance exam scores.
2. **Application Form:** Fill out the application form, which can usually be found on the college's website or obtained from the admissions office.
3. **Required Documents:** Submit the required documents, such as mark sheets, certificates, and identification proof.
4. **Entrance Exams:** Appear for entrance exams, if required, such as CET, CAT, MAT, or GATE.
5. **Personal Interview:** Attend a personal interview, if shortlisted, to assess communication skills and personality.
6. **Merit List:** Check the merit list, which is usually displayed on the college's website or notice board, to see if you have been selected for admission.
7. **Fee Payment:** Pay the admission fees, which can be done online or offline, to secure your

Type something...



# RESULTS

## Agent preview



You: 09:11 PM

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# RESULTS

## Deployed AI Agent

The screenshot displays the IBM Watsonx user interface. At the top, the header includes the IBM Watsonx logo, an 'Upgrade' button, and user account information for 'Aarya Malghe's Account' in the 'Dallas' region. The breadcrumb trail indicates the current location: 'Deployment spaces / College\_Agent / AdmissionAgent /'. The main section is titled 'AdmissionAgent' and shows its status as 'Deployed' and 'Online'. Below this, there are tabs for 'API reference', 'Test', 'Evaluations', and 'Preview', with the 'Preview' tab currently selected. The chat interface shows a user query: 'Can you give me a brief, step-by-step overview of the admission process?'. The AI agent's response is as follows:

The admission process involves the following steps:

- 1. Eligibility Criteria:** Check the eligibility criteria for the desired program, which includes minimum percentage requirements in Class 12 or undergraduate degree, relevant subject combinations, and entrance exam scores (if applicable).
- 2. Application:** Submit the application form along with the required documents, such as academic transcripts, identity proof, and entrance exam scores (if applicable).
- 3. Document Verification:** Verify the submitted documents to ensure they

On the right side, a sidebar titled 'About this deployment' provides additional details:

- Name:** AdmissionAgent
- Description:** Smart AI agent guiding you through every step of college admissions.
- Deployment Details:**
  - Deployment ID: 96498285-96a4-4d...
  - Serving name: No serving name.
  - Software specification: runtime-24.1-py3.11
  - Hardware specification: Extra extra small: 1 CPU and 2 GB RAM
  - Copies: 1
- Tags:** wx-agent
- Associated asset:** AdmissionAgent

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## CONCLUSION

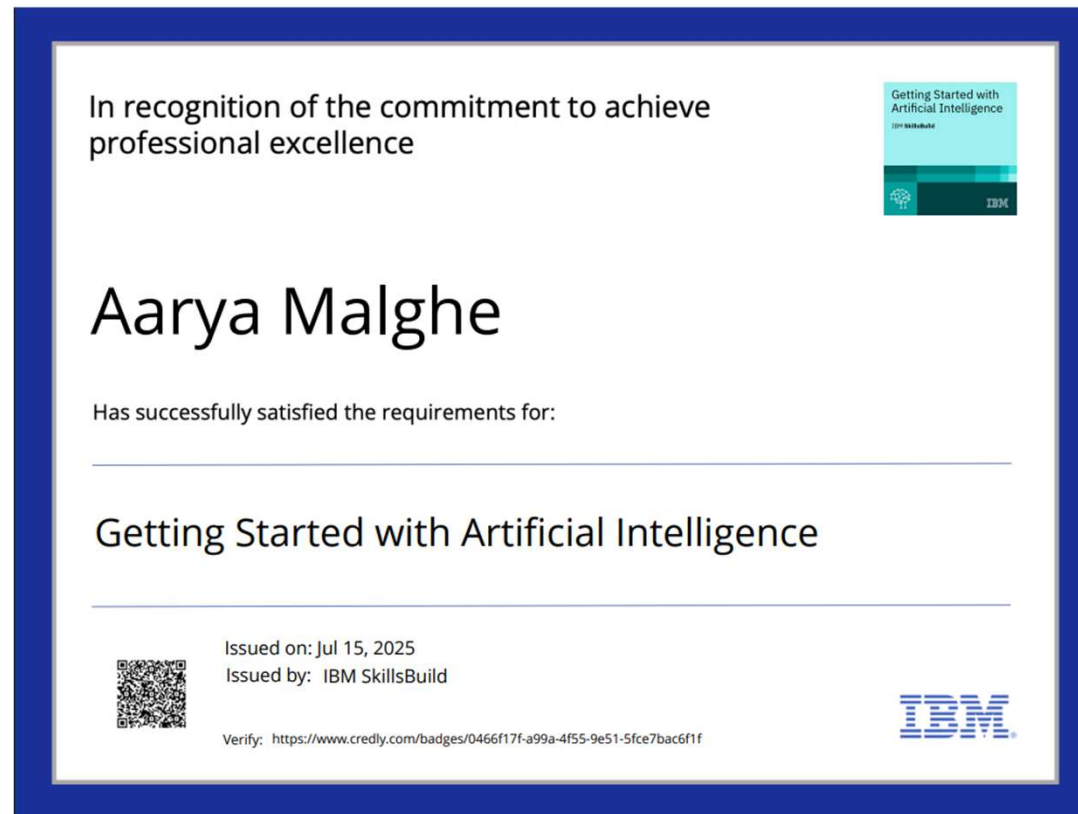
- The College Admission Agent shows how AI can transform the admissions process; making it more transparent, accessible, and efficient for everyone involved.
- By combining RAG with IBM's technology, we're bridging the gap between students and institutions with trustworthy, real-time support

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## FUTURE SCOPE

- Adding multilingual support to help international applicants.
- Linking directly to application portals for end-to-end guidance.
- Using predictive analytics to help colleges forecast enrollment.
- Expanding to cover scholarships, counseling, and college recommendations.

# IBM CERTIFICATIONS



# IBM CERTIFICATIONS



IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Aarya Malghe

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



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Git hub link : <https://github.com/aaarya2809/AdmissionAgent---RAG-Based>

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**THANK YOU**