CAPSTONE PROJECT

COLLEGE ADMISSION AGENT

Presented By:
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College Name & Department : University of Madras, BCA

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OUTLINE

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

PROBLEM STATEMENT

The traditional college admission process is often overwhelmed with a large volume of manual inquiries from prospective students regarding eligibility, course selection, application deadlines, and fee structures. This leads to inefficiencies, delays in communication, and inconsistent dissemination of information. There is a need for an intelligent and scalable solution that can streamline the admission process while ensuring accuracy, transparency, and real-time availability of information.

Proposed Solution:

The proposed solution is an **AI-powered College Admission Agent** that leverages **Retrieval-Augmented Generation (RAG)** to assist students during the admission process. This intelligent agent retrieves and synthesizes data from official institutional sources, such as admission guidelines, program brochures, FAQs, and eligibility documents. It provides natural language responses to user queries in real time.

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

Powered by RAG: Combines the precision of retrieval-based systems with the generative power of LLMs.

Multilingual Natural Language Support: Offers inclusive accessibility for diverse student demographics.

24/7 Availability: Functions round the clock, unlike traditional helpdesks.

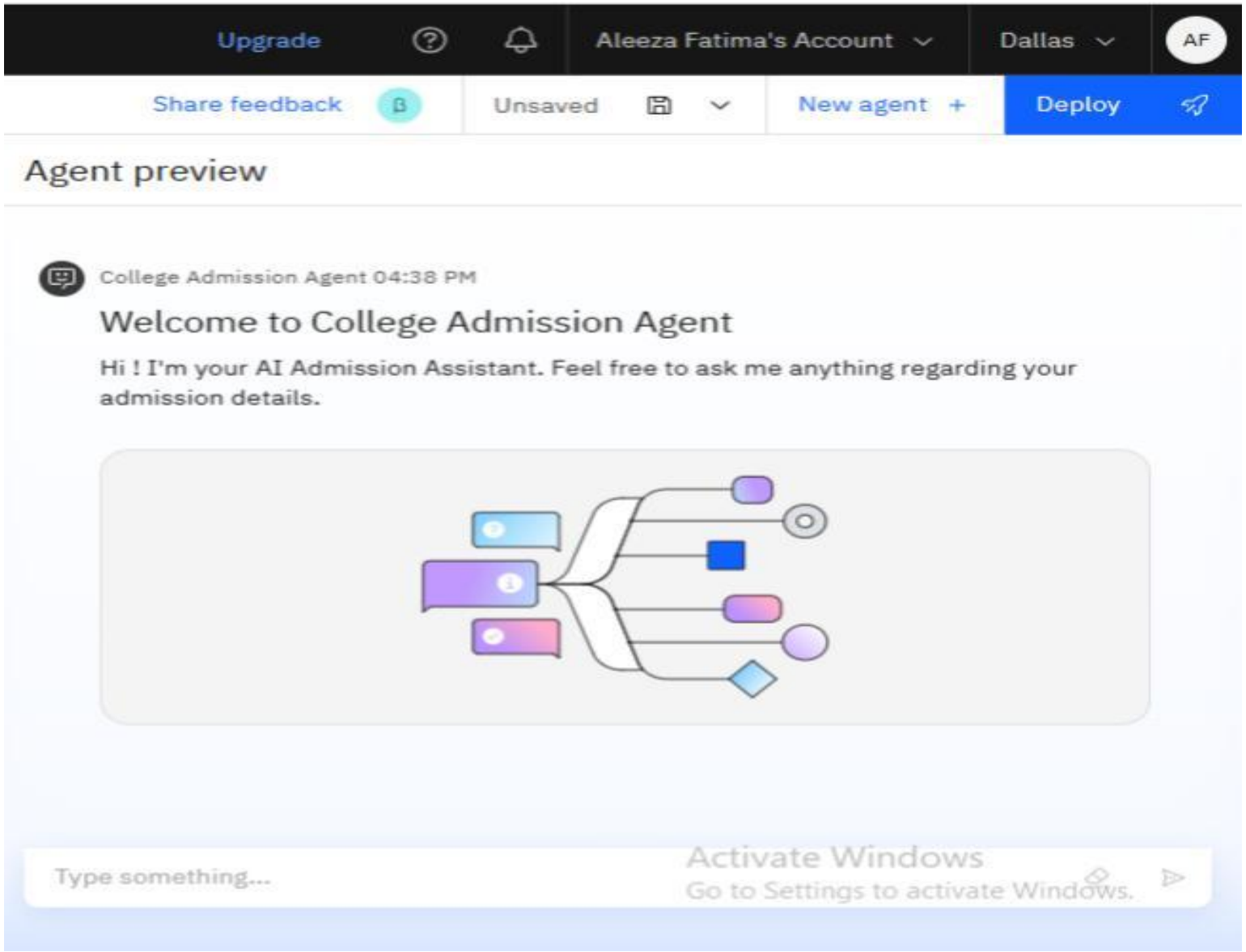
Personalized Interaction: Offers tailored guidance based on user profile.

Low-Cost Deployment: Can run on IBM Cloud Lite, ensuring affordability for educational institutions.

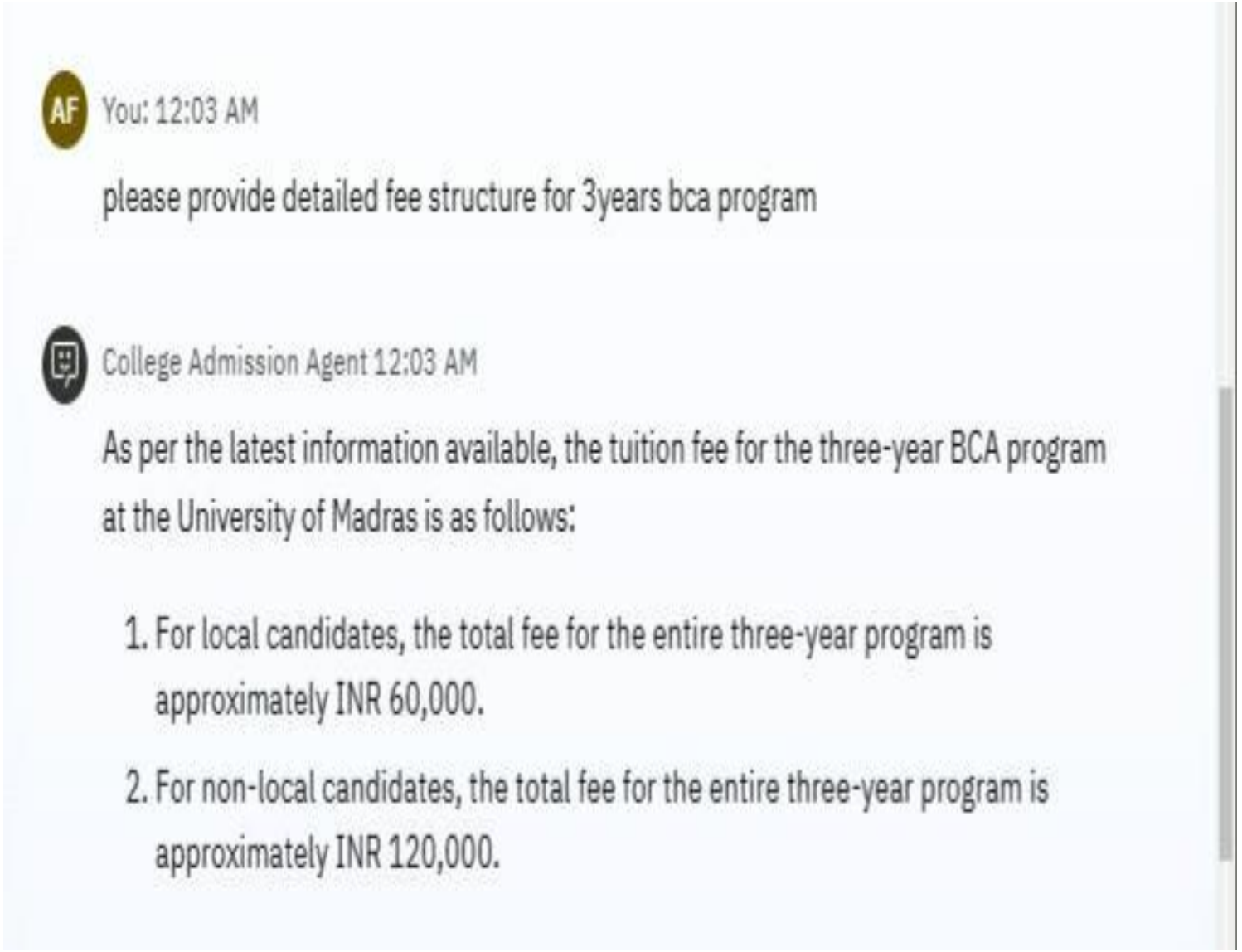
END USERS

- **Prospective Students**: Primary users seeking accurate and fast information about admissions.
- **Parents/Guardians**: Looking for fee structure, eligibility, and admission timelines.
- **Educational Institutions**: Benefit from reduced manual workload and better communication management.
- **Career Counsellors**: Use it to guide students efficiently during the counselling process

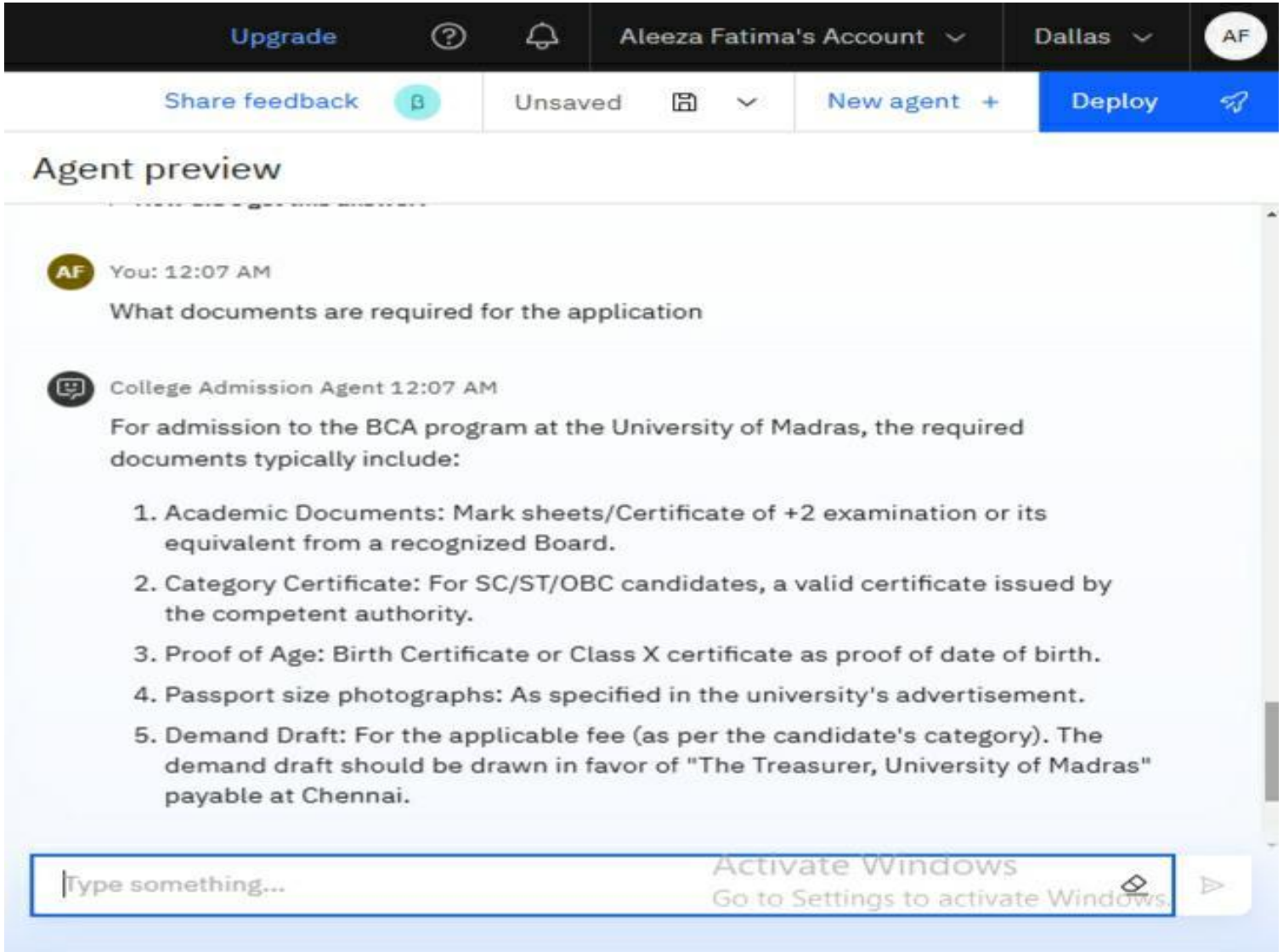
RESULTS


Upgrade
Aleeza Fatima's Account
Dallas
AF
Share feedback
Unsaved
New agent +
Deploy
Agent preview
College Admission Agent 04:38 PM
Welcome to College Admission Agent
Hi ! I'm your AI Admission Assistant. Feel free to ask me anything regarding your admission details.
Type something...
Activate Windows
Go to Settings to activate Windows.

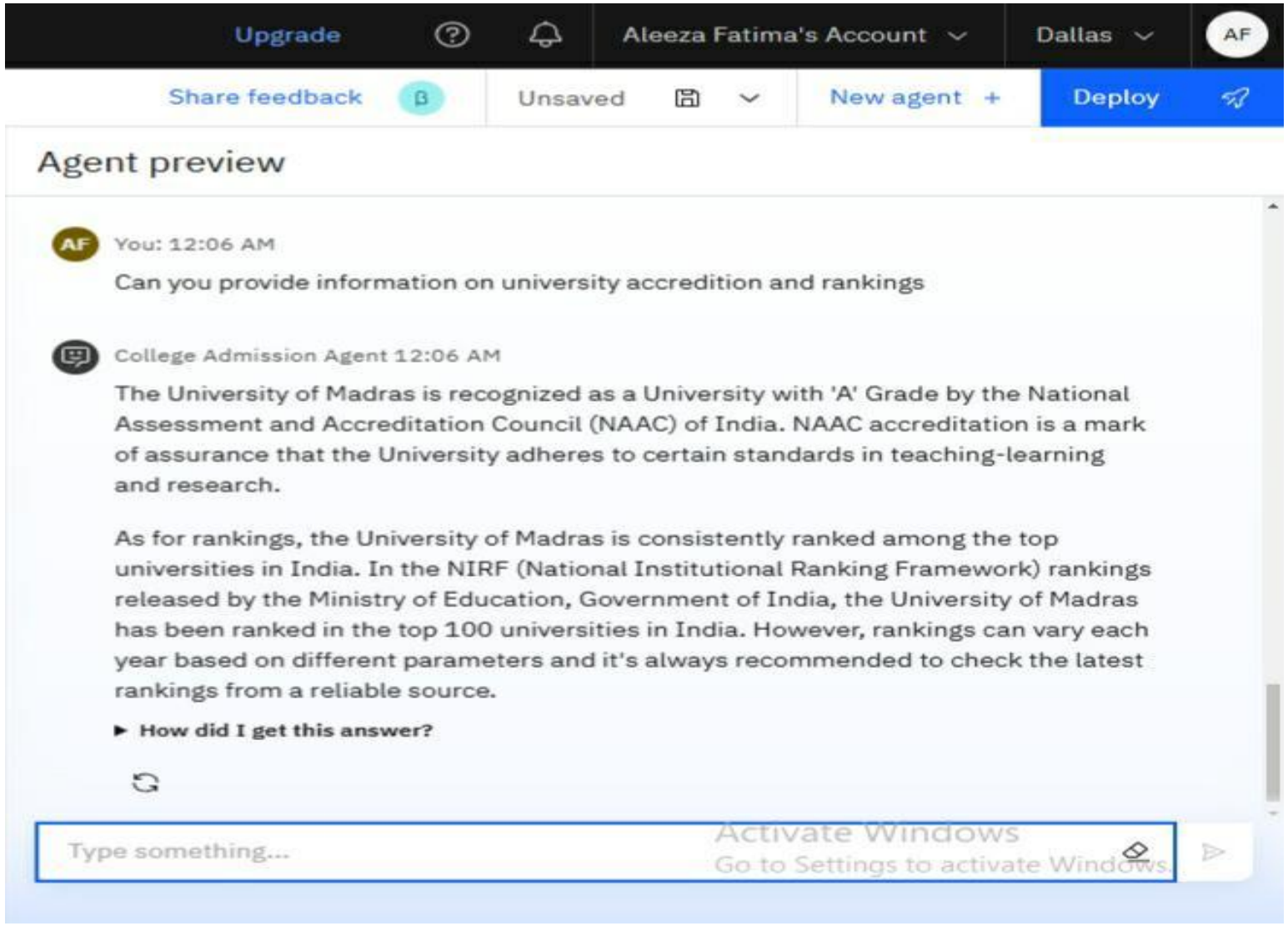
RESULTS


AF
You: 12:03 AM
please provide detailed fee structure for 3years bca program
College Admission Agent 12:03 AM
As per the latest information available, the tuition fee for the three-year BCA program at the University of Madras is as follows:
1. For local candidates, the total fee for the entire three-year program is approximately INR 60,000.
2. For non-local candidates, the total fee for the entire three-year program is approximately INR 120,000.

RESULTS


Upgrade
Aleeza Fatima's Account
Dallas
AF
Share feedback
Unsaved
New agent +
Deploy
Agent preview
AF
You: 12:07 AM
What documents are required for the application
College Admission Agent 12:07 AM
For admission to the BCA program at the University of Madras, the required documents typically include:
1. Academic Documents: Mark sheets/Certificate of +2 examination or its equivalent from a recognized Board.
2. Category Certificate: For SC/ST/OBC candidates, a valid certificate issued by the competent authority.
3. Proof of Age: Birth Certificate or Class X certificate as proof of date of birth.
4. Passport size photographs: As specified in the university's advertisement.
5. Demand Draft: For the applicable fee (as per the candidate's category). The demand draft should be drawn in favor of "The Treasurer, University of Madras" payable at Chennai.
Type something...
Activate Windows
Go to Settings to activate Windows.

RESULTS



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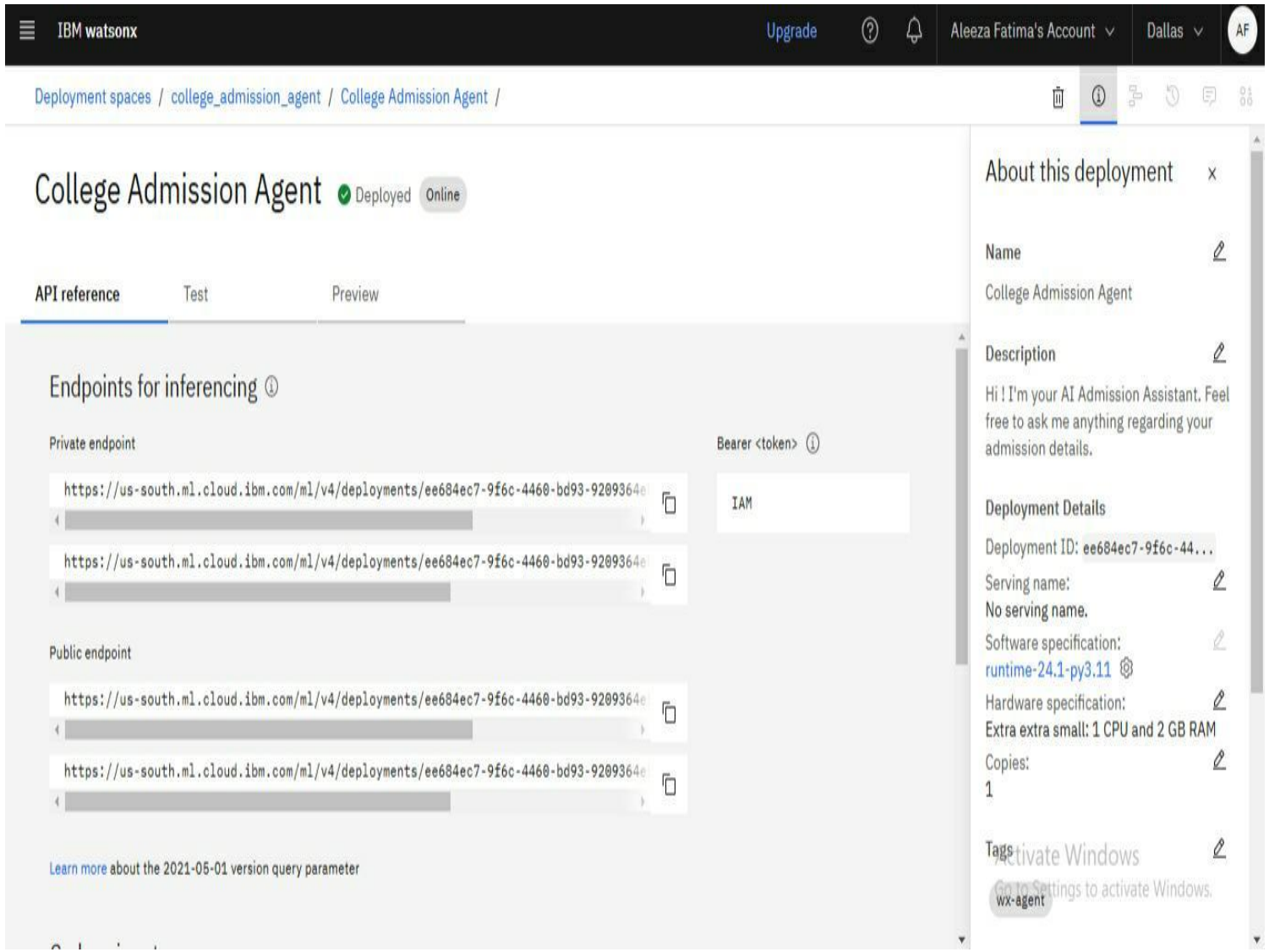
RESULTS

Deployed AI Agent



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CONCLUSION

The AI-powered College Admission Agent brings a paradigm shift in how institutions interact with aspiring students. By automating and personalizing the admission support system, it improves transparency, reduces dependency on manual processes, and offers a more accessible and student-friendly interface. It acts as a single-window solution to all admission-related queries, thereby enhancing the overall user experience.

FUTURE SCOPE

- **Integration with Government Portals (e.g., AICTE, UGC)** for real-time regulation updates.
- **Document Upload & Validation**: Accept and verify scanned documents using OCR and AI.
- **Chatbot-to-Human Escalation**: Provide live agent support for complex queries.
- **Mobile App Support**: Expand access via Android/iOS platforms.
- **Data Analytics Dashboard**: For institutions to gain insights into student interests and bottlenecks.
- **Voice Assistant Integration**: Enable voice-based interactions via Alexa, Google Assistant, or IVR.

IBM CERTIFICATIONS

In recognition of the commitment to achieve professional excellence

Getting Started with Artificial Intelligence

IBM

Aleeza Fatima

Has successfully satisfied the requirements for:

Getting Started with Artificial Intelligence

Issued on: Jul 17, 2025
Issued by: IBM SkillsBuild

Verify: https://www.credly.com/badges/b67a5cad-1b21-4076-8113-83cfdc84f605

IBM

IBM **SkillsBuild**

Completion Certificate

This certificate is presented to

Aleeza Fatima

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 28 Jul 2025 (GMT)

Learning hours: 20 mins

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In recognition of the commitment to achieve professional excellence
Journey to Cloud: Envisioning Your Solution
IBM
Aleeza Fatima
Has successfully satisfied the requirements for:
Journey to Cloud: Envisioning Your Solution
Issued on: Aug 13, 2025
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IBM

GITHUB LINK

https://github.com/Aleeza786/college_admission_agent

THANK YOU

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