

# IBM AICTE INTERSHIP PROJECT

## COLLEGE ADMISSION AGENT

Student Name : Sandesh Popat Borude

College Name & Department : MIT Academy of Engineering Alandi (ENTC)

# OUTLINE

- **Problem Statement**
- **Technology used**
- **Wow factor**
- **End users**
- **Result**
- **Conclusion**
- **Git-hub Link**
- **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.

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# 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.

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# END USERS

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

# RESULTS

Projects / College / watsonx Agent

Share feedback β

Autosaved 8:31 PM

New agent +

Deploy

Saved agents

<

Build

AI


Model: llama-3-2-11b-vision-instruct

⚙

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Agent preview

From College



Sous Chef

Generating tasty recipe ideas based on the ingredients they...

Setup

Configuration

Framework

LangGraph

Architecture

ReAct

Instructions

Advanced configuration

You are a helpful assistant that uses tools to answer questions in detail. When greeted, say "Hi, I am watsonx.ai agent. How can I help you?"

Knowledge

Tools

Add a tool

Create custom tool

Added tools (5)

You: 08:31 PM

What are the eligibility criteria for the B.Tech Computer Science program?

watsonx Agent 08:31 PM

The eligibility criteria for the B.Tech Computer Science program at MITAOE include:

- A minimum aggregate of 60% marks (or equivalent scores) in four subjects: Physics, Mathematics, English, and one additional subject from Chemistry, Biology, or Computer Science.
- A valid score in the MHT CET 2024 round 1 cutoff percentile for the GOBCS category.
- Admission to the program is based on the candidate's performance in the entrance exams and personal interview.

Please note that the eligibility criteria may vary depending on the institution and location. It's best to check the specific eligibility criteria for the institution and program you are interested in.

► How did I get this answer?

Type something...





## Saved agents



From College



## Sous Chef

Generating tasty recipe ideas  
based on the ingredients they...

## Build



Model: llama-3-2-11b-vision-instruct



## Agent preview

## Setup



## Configuration



Framework

Architecture

LangGraph



ReAct



Instructions

[Advanced configuration](#)

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## Knowledge



## Tools

[Add a tool](#)[Create custom tool](#)

Added tools (5)

Can I apply for more than one course?



watsonx Agent 08:32 PM

Based on the search results, it appears that MITAOE allows students to apply for multiple courses. The website mentions that students can choose from a variety of courses, including B.Tech, M.Tech, and PhD programs, and that the institute offers a balanced blend of core knowledge, skills, applications, specialization, and experiential learning through its courses.

Additionally, the website mentions that students can cross-learn by way of Major and Minor programs along with doing multiple courses in parallel. This suggests that MITAOE provides students with the flexibility to choose from a range of courses and to pursue multiple interests.

Therefore, the final answer to the question "Can I apply for more than one course?" is:

Yes, MITAOE allows students to apply for multiple courses. Students can choose from a variety of courses, including B.Tech, M.Tech, and PhD programs, and can pursue multiple interests through the institute's courses.

[► How did I get this answer?](#)

Type something...



## Build

AI

Model: llama-3-2-11b-vision-instruct ▼



## Setup ▼

## Configuration ^

Framework

Architecture

LangGraph ▼

ReAct ▼

Instructions

[Advanced configuration](#)

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## Knowledge ▼

## Tools ^

[Add a tool](#)[Create custom tool](#)

Added tools (5)

## Agent preview

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[► How did I get this answer?](#)

SB

You: 08:34 PM

Is there an entrance exam required for admission?



watsonx Agent 08:34 PM

Based on the search results, it appears that MITAOE requires students to take the MHT-CET 2025 entrance exam for admission to the B.Tech Computer Science program. The exam is a state-level entrance exam for engineering, and students must possess a rank in the exam to be eligible for admission. Additionally, students can also apply for admission through the JEE Main exam.

[► How did I get this answer?](#)

Type something...



a1-4d7a-ab24-486f3246eb76?project\_id=24172e0e-99c0-4cb7-b855-03f0ac695dd6&amp;context=wx&amp;open\_agents=true#

Build

AI

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Setup ▼

Configuration ^

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Architecture

ReAct ▼

Instructions

Advanced configuration

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Knowledge ▼

Tools ^

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Added tools (5)

Agent preview

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► How did I get this answer?

SB

You: 08:35 PM

Are there any scholarships available for economically weaker students?

🤖

watsonx Agent 08:35 PM

Yes, there are scholarships available for economically weaker students at MITAOE. The college offers scholarships to meritorious students who have excelled in their academics, and also provides scholarships to students from economically weaker sections and persons with disability category belonging to Maharashtra State. Additionally, needy and bright students with economically weak backgrounds can avail of several scholarships offered by the Central and State Governments.

► How did I get this answer?

🔄

Type something...

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edunet

foundation

## Build

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Model: llama-3-2-11b-vision-instruct ▼



## Setup



## Configuration



Framework

LangGraph ▼

Architecture

ReAct ▼

Instructions

[Advanced configuration](#)

You are a helpful assistant that uses tools to answer questions in detail.  
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## Knowledge



## Tools

[Add a tool](#)[Create custom tool](#)

Added tools (5)

## Agent preview

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[► How did I get this answer?](#)

SB

You: 08:36 PM

What is the College fee structure?

watsonx Agent 08:36 PM

The fee structure for the B.Tech program at MITAOE varies depending on the category and the year of admission. The total fee for the four-year program ranges from INR 5 lakhs to INR 7.7 lakhs. The tuition fee for the first year is INR 1,52,173 for general category students and INR 76,087 for SC/ST/SBC/TFWS category students. The development fee is INR 22,827 for all categories. Additionally, there are hostel and mess fees, which vary depending on the type of accommodation and the number of meals. It's best to check the official website of MITAOE or contact the college directly for the most up-to-date and accurate information on the fee structure.

[► How did I get this answer?](#)

## Build

AI

Model: llama-3-2-11b-vision-instruct ▼



## Agent preview

## Setup ▼

## Configuration ^

Framework

LangGraph ▼

Architecture

ReAct ▼

Instructions

[Advanced configuration](#)

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## Knowledge ▼

## Tools ^

[Add a tool](#)[Create custom tool](#)

Added tools (5)

SB

You: 08:37 PM

What is the hostel fee structure?



watsonx Agent 08:37 PM

The hostel fee structure for MITAOE is not explicitly mentioned in the provided text. However, based on the information available on the MITAOE website, the hostel fees for the academic year 2024-2025 are as follows:

- Hostel fee: ₹ 1,20,000 per year
- Mess fee: ₹ 50,000 per year
- Caution money: ₹ 5,000 (refundable)
- Other charges: ₹ 10,000 per year (including internet, laundry, and other facilities)

Please note that these fees are subject to change and may not be up-to-date. It's best to check with the college administration or the official website for the most recent and accurate information on hostel fees.

[► How did I get this answer?](#)

Type something...





## Build



Model: llama-3-3-70b-instruct ▾



## Setup



## Configuration



Framework

Architecture

LangGraph ▾



ReAct ▾



Instructions

[Advanced configuration](#)

You are a helpful assistant that uses tools to answer questions in detail.  
When greeted, say "Hi, I am watsonx.ai agent. How can I help you?"



## Knowledge



Vector index

[Clear chat](#)

offer\_letter ▾



If you want to add a vector index to the agent, clear the agent preview chat.

## Tools



## Agent preview

provides information on the benefits of the internship, such as access to the IBM SkillsBuild e-learning platform, opportunities for project-based learning, and certification from IBM SkillsBuild and Edunet Foundation.

► How did I get this answer?



You: 07:58 PM

Summarize the document



watsonx Agent 07:58 PM

The document is an undertaking agreement for an internship program with Edunet Foundation under the IBM SkillsBuild program. The agreement outlines the terms and conditions of the internship, including the duration, responsibilities, and expectations of the intern. It also provides information on the benefits of the internship, such as access to the IBM SkillsBuild e-learning platform, opportunities for project-based learning, and certification from IBM SkillsBuild and Edunet Foundation. The internship is for a period of 4 weeks, from July 14th, 2025, to August 6th, 2025, and includes virtual sessions, masterclasses, and project work. The intern is expected to adhere to the decorum of virtual sessions, communicate regularly with the mentor, and submit the project on time. The internship can be terminated on grounds of absenteeism, misconduct, or failure to meet the expectations.





► How did I get this answer?




Type something...







 Model: llama-3-3-70b-instruct   




Build

Knowledge 

Vector index [Clear chat](#)



Select or create vector index 

If you want to add a vector index to the agent, clear the agent preview chat.


Tools 

[Add a tool](#) [Create custom tool](#)

Added tools (4)

Google search  

Retrieve information from the internet with the Google search engine.

DuckDuckGo search 

Retrieve information from the internet with the DuckDuckGo search engine.

Wikipedia search

## Agent preview



You: 08:00 PM

the me the output of this documents



watsonx Agent 08:01 PM

```
{"messageId":"prompts_api_wml_unknown","details":  
{"lc_error_code":"GRAPH_RECURSION_LIMIT","name":"GraphRecursionError"}}
```



You: 08:01 PM

What is IBM cloud



watsonx Agent 08:01 PM

IBM Cloud (formerly known as Bluemix) is a set of cloud computing services for business offered by the information technology company IBM. It contains more than 170 services including compute, storage, networking, database, analytics, machine learning, and developer tools. IBM Cloud was formed after IBM acquired SoftLayer, a public cloud platform, in 2013. Bluemix was announced for public beta in February 2014 and was based on the open source Cloud Foundry project, running on SoftLayer infrastructure. In 2017, IBM released Kubernetes support as the IBM Bluemix Container Service, later renamed to the IBM Cloud Kubernetes Service (IKS).

[► How did I get this answer?](#)

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# 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.



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# GITHUB LINK

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

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# 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:

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### Getting Started with Artificial Intelligence

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Issued on: Jul 15, 2025

Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/db902ac6-f6fe-442d-99bf-a6abefb80a24>





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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professional excellence



# Sandesh Borude

Has successfully satisfied the requirements for:

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## Journey to Cloud: Envisioning Your Solution

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# THANK YOU

