
IBM SKILL BUILD PROJECT

COLLEGE ADMISSION AI AGENT

Presented By

Student name : YOGIN N C

College Name & Department : BMSIT&M , MCA Department

OUTLINE

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PROBLEM STATEMENT

- The college admission process involves numerous queries related to eligibility, fees, courses, and deadlines
- Traditional methods of addressing inquiries (manual responses, email queries) are time-consuming and prone to delays. Students often face difficulty accessing accurate, up-to-date admission information.

There is a need for an intelligent system that can

- Retrieve admission-related data from trusted institutional sources. Provide instant, accurate, and natural language responses to students.

TECHNOLOGY USED

- IBM Cloud Lite Services Cloud Object Storage (for storing documents and datasets)
- Watsonx.ai Runtime (for AI model execution)
- IBM Granite LLM (Foundation Model for text generation)
- Retrieval-Augmented Generation (RAG) Combines document retrieval with AI reasoning for context-based answers

IBM CLOUD SERVICES USED

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model

WOW FACTORS

- Real-time, document-aware Q&A using institutional data
- Powered by Granite, IBM's large language model optimized for enterprise AI
- Supports natural language queries without requiring technical knowledge
- Retrieves the most relevant, trusted, and updated admission details instantly
- Can handle multiple queries simultaneously, improving efficiency
- Scalable and adaptable for any institution's database

END USERS

- Prospective Students – Quick access to course and admission info
- Parents/Guardians – Fee structure and process clarification
- College Admission Offices – Reduced manual inquiry load
- Counselors/Education Consultants – Up-to-date admission guidelines
- International Applicants – Accessible answers without time zone barriers

RESULTS

IBM watsonx

Upgrade

YOGIN N C's Account

Dallas



YN

Deployment spaces /

Yogin_IBM_Project

OverviewAssetsDeploymentsJobsManage

Search

Name	Type	Status	Asset	Asset type	Tags	Last modified
 College AI_AGENT	Online	 Deployed	College AI_AGENT	Ai service	<div>wx-agent</div>	18 minutes ago YOGIN N C (You)


Items per page: 20




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
Deployment of the AI Agent

RESULTS

 IBM watsonx


Upgrade ?  YOGIN N C's Account  Dallas  YN

Deployment spaces / Yogin_Agentic_AI / College Admission Agent /      


College Admission Agent  Deployed  Online

API reference Test Evaluations Preview

New chat +


 You 10:16 PM

Tell me about BMSIT&M college

 College Admission Agent 10:16 PM

BMSIT&M college refers to BMS Institute of Technology & Management, which has multiple campuses including Yelahanka in Bangalore. The fees structure for the academic year 2025-2026 is as follows:

1. **MBA:** Rs. 4,50,000/- per annum
2. **MCA:** Rs. 3,50,000/- per annum
3. **M.Tech - Computer Networking:** Rs. 1,50,000/- per annum
4. **M.Tech – Transportation & Engg.:** Rs. 1,50,000/- per annum
5. **M.Tech – VLSI & Embedded Systems:** Rs. 4,00,000/- per annum
6. **MBA (IBS):** Rs. 2,75,000/- per annum
7. **MCA (IBS):** Rs. 2,75,000/- per annum
8. **M.Tech (CSE):** Rs. 1,00,000/- per annum

Type something... 

Testing AI AGENT after Deployment

RESULTS

The screenshot displays the IBM watsonx Agent Lab interface. The top navigation bar includes the IBM watsonx logo, an 'Upgrade' button, a help icon, a notification bell, and user account information for 'YOGIN N C's Account' in 'Dallas'. The main breadcrumb path is 'Projects / YOGIN_Agentic_AI / Agent Lab'. The interface is split into two main panels: 'Build' on the left and 'Agent preview' on the right.

Build Panel:

- Model: llama-3-3-70b-instruct
- Tools section with buttons: 'Add a tool' and '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:** (partially visible)

Agent preview Panel:

- Chat history:
 - You: 12:38 AM: Tell me about BMSIT&M college
 - College AI_AGENT 12:38 AM: BMSIT&M college is a private engineering college in Yelahanka, Bangalore, India. It was started in 2002 and offers a 2-year Master of Business Administration programme with an option to opt for International Immersion. The college has a strong focus on research and development, and it has collaborations with various industries and institutions. BMSIT&M college also has a good placement record, with many of its students being placed in top companies. The college offers various undergraduate and postgraduate courses in engineering and management, and it has a strong faculty with many experienced professors. Overall, BMSIT&M college is a good option for students who want to pursue a career in engineering or management.
- Footer text: For more information, you can visit the college's website at <https://bmsit.ac.in/> or check out their Wikipedia page at https://en.wikipedia.org/wiki/B.M.S._Institute_of_Technology_and_Management.
- Input field: 'Type something...' with a send button.

Building of the AI Agent

RESULTS

The screenshot displays the IBM watsonx Agent Lab interface. The top navigation bar includes the IBM watsonx logo, an Upgrade button, a help icon, a notification bell, and user account information (YOGIN N C's Account, Dallas, and a YN profile icon). Below the navigation bar, the breadcrumb trail reads 'Projects / YOGIN's sandbox / Agent Lab'. The main interface is divided into two panels. The left panel, titled 'Build', contains a 'Setup' section (highlighted with a blue border), a 'Configuration' section with dropdowns for 'Framework' (LangGraph) and 'Architecture' (ReAct), an 'Instructions' section with a text area containing the instruction: 'you are the agent where you will tell the answers by doing research about the colleges and tell the eligibility criteria and full depth information about the colleges from the websites and internet and aslo tell the fees structure for the academic year which is provided in the vector and try to answer relevently', and a 'Knowledge' section. The right panel, titled 'Agent preview', shows a chat history with a user message 'tell me about BMSIT' and a response from the 'College Admission Agent' providing detailed information about B.M.S. Institute of Technology and Management (BMSIT). At the bottom of the chat history is a text input field with the placeholder 'Type something...'. A 'Clear chat' button is visible at the bottom right of the Build panel.

**Building and testing of the AI Agent using
IBM Granite LLM model**

CONCLUSION

- Successfully deployed an AI-driven admission assistant on IBM Cloud
- Integrated RAG pipeline with Granite LLM to retrieve answers from official documents
- Reduced average response time for queries from hours/days to seconds
- Provided consistent and accurate answers from verified sources
- Improved transparency in the admission process

GITHUB LINK

- <https://github.com/Yoginsjce/IBM-edunet-internship>

FUTURE SCOPE

- Integrate multi-language support for regional and international applicants.
- Add voice-based interaction for accessibility.
- Expand to course recommendations based on student profile.
- Enable real-time application status tracking.
- Connect to external education databases for scholarship and exam updates.

IBM CERTIFICATIONS

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

YOGIN NC

for the completion of

Getting Started with Artificial Intelligence

(PLAN-E624C2604060)

According to the Your Learning Builder - Plans system of record

Completion date: 23 Jul 2025 (GMT)



THANK YOU