
AICTE INTERNSHIP PROJECT

COLLEGE ADMISSION AGENT

Presented By: Agrim Puriya
Student name : Agrim Puriya
College Name & Department : Madhav Institute of Technology
and Science Gwalior, Centre for AI

OUTLINE

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

PROBLEM STATEMENT

New college students often have to rely on staff or personal connections to get information about the admission process. This can be challenging, as there's no simple or personalized way to access the details they need, making the admission process more confusing and stressful.

Proposed Solution:

An AI College Helper Agent that uses Natural Language Processing (NLP) and Retrieval-Augmented Generation (RAG) to help students access accurate and up-to-date information about the admission process — all through natural, conversational language, making it easy for anyone to get the information they need.

TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite 3b instruct 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

This agent will significantly reduce the time students spend searching for college admission information, improve the accuracy of responses, guide applicants through complex admission procedures, and make the entire process more accessible by using natural, conversational AI.

Unique Features:

- **Semantic search** across admission documents, brochures, FAQs, and official notices
- **Real-time information updates** from linked sources like GitHub or official college repositories
- **Personalized responses** based on the user's academic profile and preferences
- **Natural language Q&A** — no need for complex queries or technical terms
- **Admission timeline tracking** — reminders and updates for deadlines, results, and counselling
- **Multi-college comparison** based on courses offered, fees, placements, and eligibility

END USERS

- Students
- Institutions and Universities
- Parents
- Faculty

RESULTS

Projects / CollegeHelper / Agent Lab

Share feedback B Unsaved New agent + Deploy

Build AI Model: granite-3-3-8b-instruct

Quick start questions

Add up to 4 quick start questions that your users can select.

Configuration

Framework

LangGraph

Architecture

ReAct

Instructions

You are a helpful College assistant that uses tools to answer questions in detail. When greeted, say "Hi, I am College Assistant. How can I help you?". The agent helps with course selection, application guidance, fee structure, and important deadlines.

Advanced configuration

Agent preview

CollegeHelper 07:22 PM

Hi, I am College Assistant. How can I help you?

► How did I get this answer?

You: 07:22 PM

When is admission starting?

CollegeHelper 07:22 PM

The admission process for BrightFuture Institute of Technology (BFIT) typically starts in April. According to the information available, applications opened on April 10, 2025, and the last date to apply was June 15, 2025. Please note that dates can vary each year, so it's always a good idea to check the official website or contact the admissions office for the most current information.

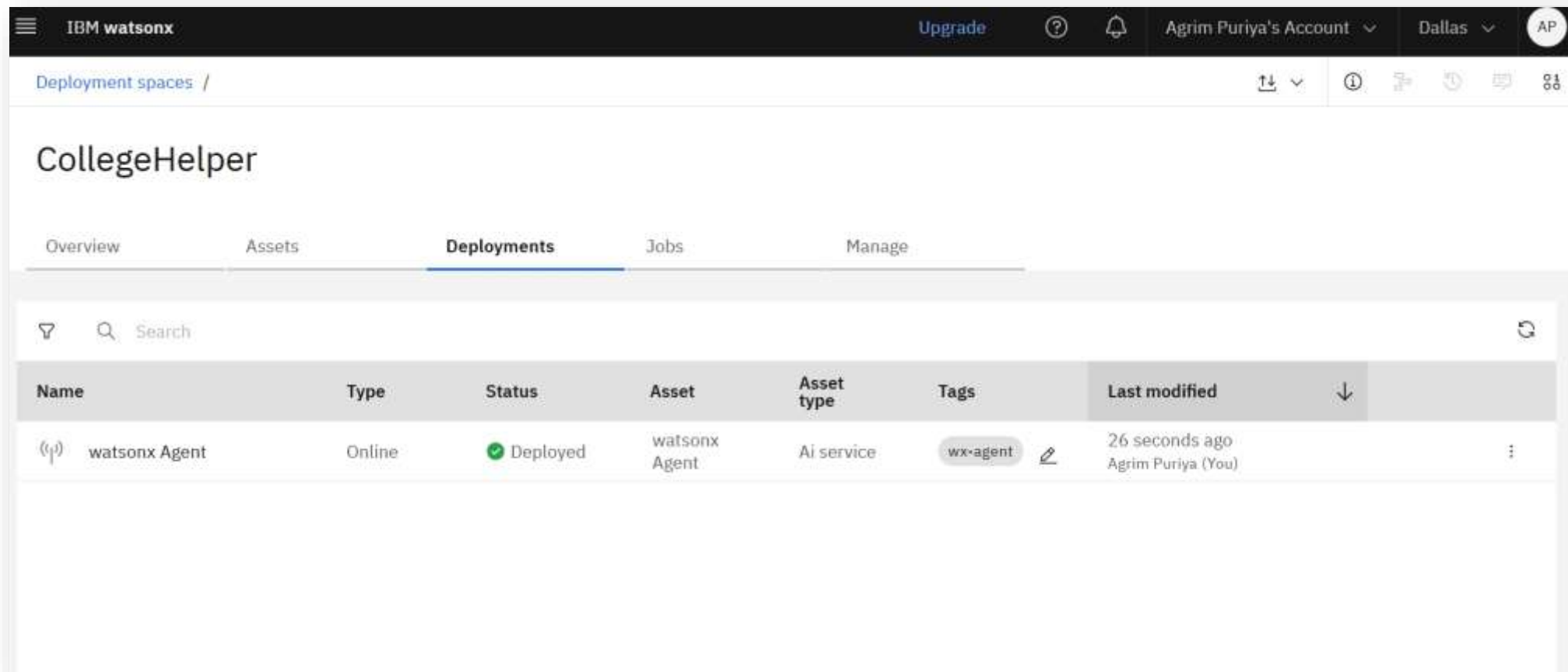
Would you like more details about BFIT, such as eligibility criteria, fee structure, or available programs?

► How did I get this answer?






Type something...

RESULTS

Deployed AI Agent



The screenshot shows the IBM watsonx web interface. At the top, there's a navigation bar with the IBM watsonx logo, an 'Upgrade' button, a help icon, a notification bell, and user information for 'Agrim Puriya's Account' in 'Dallas'. Below this is a breadcrumb 'Deployment spaces /'. The main heading is 'CollegeHelper'. There are tabs for 'Overview', 'Assets', 'Deployments' (which is active), 'Jobs', and 'Manage'. Below the tabs is a search bar. The main content area displays a table of deployments.

| Name | Type | Status | Asset | Asset type | Tags | Last modified | |
|---|--------|--|---------------|------------|---|--------------------------------------|---|
|  watsonx Agent | Online |  Deployed | watsonx Agent | AI service |   | 26 seconds ago Agrim Puriya (You) |  |

CONCLUSION

- The agent can guide the student in the admission process, provide relevant information and overall streamline the admission process.
- Gives a reliable and easy source for useful information about the institution
- These Helper Agents enhance efficiency and accuracy for many institutions not just academic ones.

FUTURE SCOPE

- Multilingual Helper Agent
- Voice-Activated Institute Assistant
- Real-Time Collaboration Features
- NLP guided form filling (admission process)
- Real-time integration with institutional data sources (e.g., ERP, LMS, websites).
- Automatic updates of admission rules, course offerings, deadlines, and regulations.

IBM CERTIFICATIONS



7/23/25, 9:47 AM

Completion Certificate | SkillsBuild

IBM **SkillsBuild**

Completion Certificate



This certificate is presented to

Agrim Puriya

for the completion of

**Lab: Retrieval Augmented Generation with
LangChain**

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 22 Jul 2025 (GMT)

Learning hours: 20 mins

GITHUB LINK

- Git hub link : [OggyBoi08/CollegeHelper: Documents for College Helper rag backend](https://github.com/OggyBoi08/CollegeHelper)
- www.github.com/OggyBoi08/CollegeHelper



THANK YOU