

College Admission Agent

Description

The College Admission Agent is an AI-powered chatbot developed for the IBM Hackathon, designed to help prospective students easily access clear, accurate, and up-to-date information about college admissions. It uses Retrieval-Augmented Generation (RAG) and IBM Granite LLMs to provide real-time answers about courses, eligibility, fees, deadlines, and more—all from official sources. This solution simplifies the admission process, reduces manual work, and enhances transparency for students and institutions alike.

Technologies Used

- IBM Cloud Lite Services - IBM Watsonx AI Studio - IBM Watsonx AI Runtime - IBM Agent Lab (No-code Agent builder) - IBM Granite Foundation Model - IBM Cloud Object Storage - IBM IAM (Identity and Access Management) - Natural Language Processing (NLP) - Retrieval-Augmented Generation (RAG)

Wow Factors

- Accurate, real-time responses based on official college documents - Scalable and customizable for any college or course - No-code development using IBM Watsonx Agent Lab - Deployed fully on IBM Cloud Lite (Free Tier) - Voice-activated and multilingual support - Personalized course and college recommendations - Integration-ready with admission portals

End Users

- B.Tech aspirants - Diploma holders - Parents and guardians - Admission staff - Educational institutions

Installation / Setup

1. Clone the repository: `git clone https://github.com/Nishkha04/Smart_Irrigation_AICTE_Shell.git` (Note: Update the repository link once your College Admission Agent is pushed to GitHub.) 2. Access IBM Watsonx Agent Lab: - Log in to IBM Cloud - Create or open Watsonx project - Import policy documents (PDFs, FAQs, etc.) - Use IBM Watsonx Agent Lab to build your no-code RAG agent 3. Connect to IBM Granite model and Cloud Object Storage for document-based querying.

Results

- Simplifies admission-related queries and document searches. - Saves time for staff and students by reducing manual Q&A.; - Enhances student experience with AI-guided decisions. - Improves transparency in the admission process.

Future Scope

- Multilingual admission support - Voice-activated queries - Personalized college/course recommendations - Real-time updates from university portals - Integration with online application submission platforms - AI-based document and eligibility validation

IBM Certifications

Achieved IBM certifications for cloud, AI, and Watsonx during this project.

GitHub Link

https://github.com/Nishkha04/Smart_Irrigation_AICTE_Shell.git (Replace with your new repo link once uploaded.)

Author

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