CAPSTONE PROJECT

ADMISSION AGENT

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OUTLINE

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PROBLEM STATEMENT

Students and parents often face confusion during the college admission process due to scattered information, inconsistent eligibility criteria, dynamic cut-off trends, and lack of personalized guidance. Despite the availability of brochures, websites, and helpdesks, manually browsing multiple sources for updated information is time-consuming, inefficient, and error-prone.

Proposed Solution:

The Admission Agent is an AI chatbot that uses NLP and RAG (Retrieval-Augmented Generation) to provide instant, accurate answers to admission-related queries. Built with IBM Watson Assistant and Granite models, it helps users find relevant information from brochures, cutoff lists, and documents—making the admission process faster, easier, and more accessible.



TECHNOLOGY USED

IBM cloud lite services

Natural Language Processing (NLP)

Retrieval Augmented Generation (RAG)

IBM Granite model



IBM CLOUD SERVICES USED

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



WOW FACTORS

✓ RAG-Powered Intelligence

Combines Retrieval-Augmented Generation with Watson Assistant to generate context-aware responses from real admission documents like PDFs and brochures.

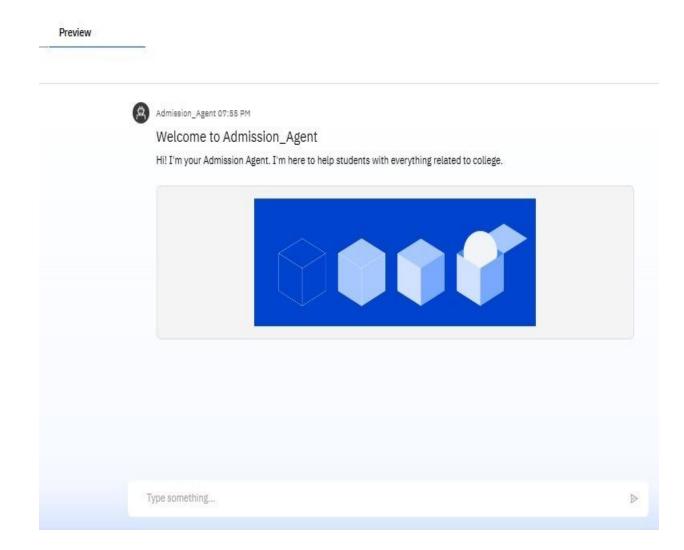
- Powered by IBM Granite Model
- Uses IBM's cutting-edge Granite-13B model for deep language understanding and reliable answer generation.
- Multi-Document Search
- Handles multiple files (e.g., cutoffs, fee structures, program info) with contextual comprehension—no need for manual FAQs.
- Real-Time Chat Experience
- Provides a 24/7 assistant interface for students to ask questions naturally—reducing institutional workload.
- Deploy Anywhere
- Can be easily embedded into websites or integrated via API into any college admission portal.
- Personalized, Relevant Replies
- Understands user intent and fetches precise answers—no more searching through long PDFs or confusing websites.
- Scalable & Secure on IBM Cloud
- Built on IBM Cloud with enterprise-grade reliability and scalability.



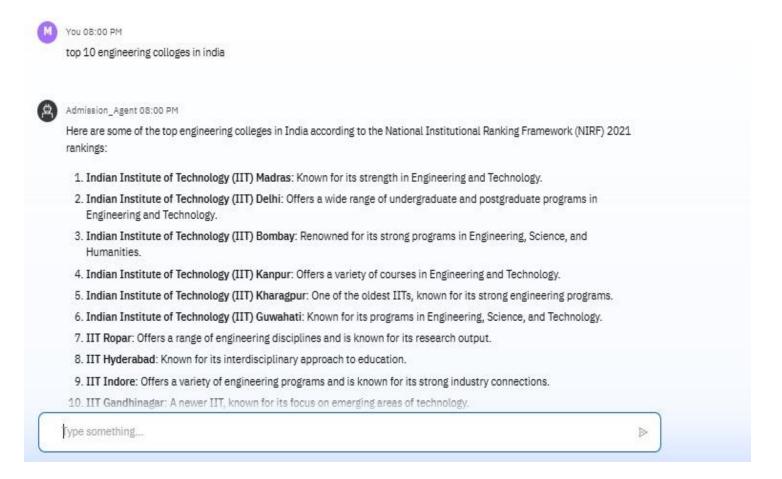
END USERS

- Academic Researchers
- Research Institutions and Universities
- Students
- Educators













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how to get admission in iit



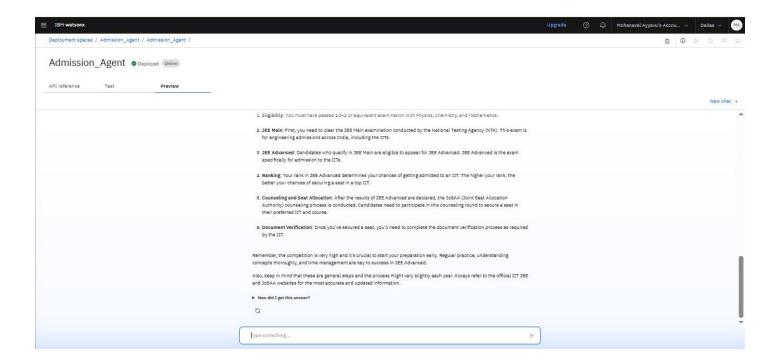
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Admission to the Indian Institutes of Technology (IITs) is highly competitive and is based on the Joint Entrance Examination (JEE) Advanced. Here's a general guide on the process:

- 1. Eligibility: You must have passed 10+2 or equivalent examination with Physics, Chemistry, and Mathematics.
- JEE Main: First, you need to clear the JEE Main examination conducted by the National Testing Agency (NTA). This exam is
 for engineering admissions across India, including the IITs.
- JEE Advanced: Candidates who qualify in JEE Main are eligible to appear for JEE Advanced. JEE Advanced is the exam specifically for admission to the IITs.
- Ranking: Your rank in JEE Advanced determines your chances of getting admitted to an IIT. The higher your rank, the better your chances of securing a seat in a top IIT.
- Counseling and Seat Allocation: After the results of JEE Advanced are declared, the JoSAA (Joint Seat Allocation
 Authority) counseling process is conducted. Candidates need to participate in this counseling round to secure a seat in
 their preferred IIT and course.
- Document Verification: Once you've secured a seat, you'll need to complete the document verification process as required by the IIT.



Deployed AI Agent





CONCLUSION

- The Admission Agent revolutionizes how students access admission information by providing a fast, intelligent, and interactive chatbot experience. By combining Natural Language Processing (NLP) with Retrieval-Augmented Generation (RAG) and powerful models like IBM Granite, it transforms static documents into dynamic, searchable knowledge.
- Whether it's understanding eligibility, checking cutoffs, or navigating the application process, this assistant ensures that every query is answered accurately and instantly—making college admissions more transparent, accessible, and efficient for all.



FUTURE SCOPE

- Add multilingual support for wider accessibility.
- Enable voice-based interaction for hands-free use.
- Develop a mobile app version of the agent.
- Provide personalized course and college suggestions.
- Integrate with college portals for real-time updates.
- Include calendar reminders for key admission dates.
- Offer admin dashboard with user analytics.



IBM CERTIFICATIONS





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Completion Certificate | SkillsBuild

IBM SkillsBuild

Completion Certificate



This certificate is presented to

Mohanavel A

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 24 Jul 2025 (GMT)

Learning hours: 20 mins



In recognition of the commitment to achieve professional excellence



Mohanavel A

Has successfully satisfied the requirements for:

Journey to Cloud: Envisioning Your Solution



Issued on: Jul 18, 2025 Issued by: IBM SkillsBuild

Verify: https://www.credly.com/badges/1bc9f666-8ab5-4b9c-a5f0-f0f78326523c





GITHUB LINK

https://github.com/Mohanavelayyavu/Admission_agent



THANK YOU

