Problem Statement – College Admission Agent (RAG Based)

The Challenge

Navigating the college admissions process can be overwhelming for prospective students. They often face difficulties finding accurate information about eligibility, deadlines, fee structures, course options, and application procedures. Traditional support systems, such as helpdesks and static web pages, struggle to meet the growing demand for instant, reliable, and personalized responses.

Solution

To address this, the proposed solution is a **College Admission Agent** powered by **Retrieval-Augmented Generation (RAG)**. This intelligent assistant retrieves and summarizes admission policies, FAQs, and course-related content from institutional sources, providing students with accurate, real-time answers to natural language queries.

By automating common inquiries and offering clear, policy-grounded information, the agent not only reduces the burden on administrative staff but also enhances transparency, accessibility, and overall student experience during the admissions journey.

Key Features

- Real-time responses to admission-related questions in natural language
- Retrieval of accurate information from official documents and databases
- Support for queries related to course selection, application guidance, fees, and deadlines
- Improved efficiency and reduced manual workload for admission teams
- Enhanced applicant experience through accessible, trustworthy communication

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Technology Requirements

- **IBM Cloud Lite Services**: For hosting and integration
- **IBM Granite Foundation Model**: For language understanding and generation
- **Retrieval-Augmented Generation (RAG)** framework
- **IBM watsonx Runtime** and **Cloud Object Storage** for secure model deployment and data access