

CAMPUSCOMPASS

Navigating Academic Paths with AI

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Project Summary

CampusCompass is an innovative generative AI chatbot built on a LLM that leverages cutting-edge technology to assist students in navigating their academic journey with precision and personalization. Designed to interact in a human-like manner, CampusCompass answers queries related to courses, professors, and educational pathways, utilizing Northeastern University's course dataset to deliver informed and relevant advice.

Key Features

Generative AI Chatbot: Utilizes a sophisticated LLM to understand and respond to student inquiries, providing tailored advice and information.

Dynamic Query Handling: Employs dbt for transforming data and LangChain for managing AI interactions, enhancing the chatbot's ability to deliver precise responses.

Privacy and Security: Features a PII check mechanism to protect personal data, ensuring compliance with data protection regulations and safeguarding user information.

Error Handling Framework: Implements advanced error handling strategies to maintain robust performance and reliability.

Benefits

Personalized Academic Guidance: Offers students customized course recommendations aligned with their career aspirations and academic interests.

Efficient Information Access: Simplifies the process of obtaining detailed course descriptions, prerequisites, and summarized reviews, saving students time and effort.

Data-Driven Decisions: Helps students make informed decisions based on a rich dataset, including historical data and peer reviews.

Unique Value Proposition

CampusCompass stands out by integrating advanced AI technology with a user-centric design to transform the way students interact with their academic environment. Unlike traditional academic advisory services, CampusCompass provides real-time, data-driven, and personalized advice that aligns with individual academic and career goals. This project not only enhances student engagement and satisfaction but also promotes informed decision-making through a seamless and interactive platform.

Conclusion

With CampusCompass, students have a reliable and intelligent guide right at their fingertips, ready to help them chart the most effective path through their educational journey. This project represents a significant leap forward in educational technology, offering a unique blend of personalization, efficiency, and scalability that can profoundly impact student success and academic planning.