CAMPUS CHAT BOT

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ABSTRACT

The Campus Chatbot is a sophisticated web-based virtual assistant designed to enhance the informational experience. By leveraging the Web Speech API, the chatbot enables seamless voice recognition, allowing users to interact hands-free for a more engaging and accessible experience. The bot is equipped to handle a wide range of campus-related inquiries, from transportation schedules and library hours to event information and administrative contacts. Employing advanced techniques such as fuzzy matching and synonyms mapping, the chatbot accurately interprets diverse user inputs, ensuring that responses are relevant and contextually appropriate. This adaptability not only improves user satisfaction but also facilitates a smoother communication flow within the campus community. The intuitive user interface further enhances usability, making it easy for users of all tech- savviness levels to engage with the system. Looking ahead, the chatbot aims to incorporate machine learning algorithms to continuously improve its responses based on user interactions, as well as to support multiple languages, thereby broadening its accessibility. Overall, the Campus Chatbot serves as an essential tool for streamlining access to vital information, fostering a more connected and informed campus environment.

KEYWORDS
Virtual assistant, voice recognition , Fuzzy matching , user interface, Machine Learning