Group C-4 | An Intelligent Campus Assistant: Combining Assistive Chatbot and Digital Twin for Enhanced Event and Course Navigation



This work presents the development of an assistive chatbot designed to help university students, faculty, and staff access real-time information about events, courses, and locations within the campus. By utilizing Large Language Model (LLM), the chatbot is trained with domain-specific datasets, including event schedules, course descriptions, and spatial information, to improve its understanding of university-related queries. The model is integrated with a digital twin platform, allowing users to visualize the locations of events and courses in real-time. The digital twin component provides an immersive interface, enabling users to interact with a virtual representation of the campus, enhancing the chatbot's functionality by providing both conversational and spatial information. The combination of advanced language models and digital twin integration creates a powerful tool for campus assistance, capable of delivering precise and contextualized answers while helping the university community navigate the campus more efficiently.

COA SHOWCASE

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