PrepGenie:Ask,Learn and Excel

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Abstract

The AI Study Buddy for Exam Revision is an intelligent chatbot system designed to support students in preparing for exams more effectively. The core functionality enables users to upload study materials—such as lecture notes or syllabi—which are then processed to extract and structure the content. This structured data is stored in a searchable format, allowing the system to retrieve relevant information based on user queries.

When a student asks a question, the system identifies and retrieves the most contextually relevant portions of the uploaded material. These are used to generate accurate, concise, and exam-focused responses, simulating the guidance of a knowledgeable tutor. The user interface allows for seamless file uploads, interactive questioning, and clearly presented answers with referenced sources.

The project is built in phases, starting with a minimal viable product focused on core functionality, and expanding to include advanced features such as quiz generation, topic-wise summarization, memory for conversational continuity, and adjustable difficulty levels in explanations. This system highlights the integration of document retrieval techniques with advanced language understanding to deliver a personalized and efficient study experience.