Video Transcriber

This project basically involves a software application that transcribes text from YouTube videos and generates summaries from the produced texts and transforms these summaries into interactive quiz applications to accelerate the learning and retention process. The software will enable transcription from multiple languages and include a lot of other advanced features like speaker identification, keyword highlighting, in real-time transcript and summary, time-coded summary, and topic segmentation.

It will also be a place for accessibility tools like text-to-speech, summarization control, and editing transcriptions and tools for the blind and hearing-impaired, such as lip-reading assistance, audio-visual enhancement, noise reduction, live captioning, and display sign language.

There will be an application of speech-to-text for real-time and multilingual transcription, where the summarization process would be very concise with time coding of information on active keywords in addition to effectively presenting the different topics through the use of NLP and ML techniques. Thus quizzes based on mcq questions shall be formulated with the summarized text by the AI-based quiz application, which will propel the active learning process.

Web application will be developed using the frameworks Django or Flask along with React that will make it user-friendly and seamless. Enhanced performance and accuracy will be given to every process through AI and ML making it accessible and beneficial for all users.

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