

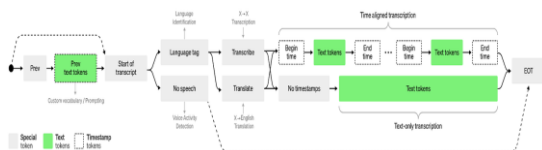


### User Initiates Conversation through Mic



User starts a conversation with the assistant on activation button.

The recorded message is transcribed into text.



### Stack used for module



Speech Recognition to capture speech



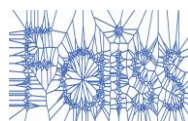
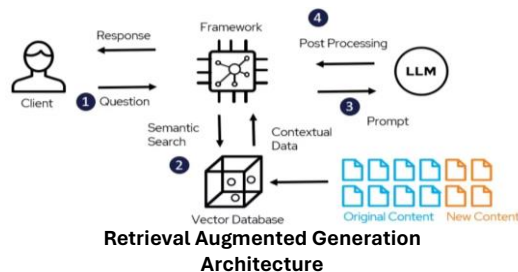
OpenAI's Whisper used to transcribe audio

### System performs similarity search in the created Vector Database



System returns top 'k' indexes and appends relevant data to query.

The query along with retrieved information is sent to LLM.



FAISS-Similarity Search Library

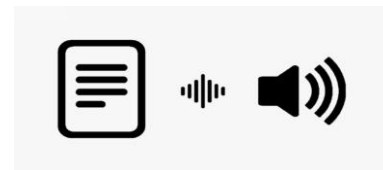
GPT3.5 API

LLM

### LLM output to Voice Conversion



The text Output received from the LLM will be converted to voice using locally run module (pyttsx3)



Text to Speech



pyttsx3

TTS Library



Auditory Feedback (pyttsx3)