

College of Computing and Data Science

Enhancing Communication For The Mute With Generative Al

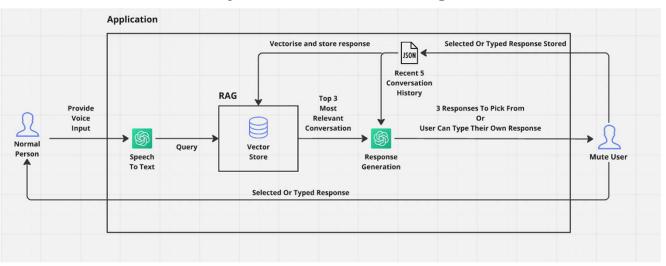
Generating personalized responses at real time for the mute to conveniently pick to reply to a normal speaker.

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With the rising proliferation of generative ai applications it would be useful to explore its application to enhance communication for mute individuals. This project attempts a novel approach of creating a mobile application that would serve as a companion for mute individuals to assist them in their conversations with a normal speaker. Features are as follows:

- Generates personalized responses at real time for the mute to pick
- The app grows with the users by learning their habits and past experiences
- Allows users to edit the generated responses directly
- · Allows users to provide feedback to the ai model through liking or disliking certain responses

System Architecture & Design



Results

Demo Of Application



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- Generated Responses were highly relevant to the topic on hand
- Generated Responses were personalized to mute users' past experiences and hobbies
- ✓ Low latency of ~5s for generating responses
- Rated 4.5/5 for user friendliness and personalization during user studies.



https://www.ntu.edu.sg/scse