

DuDe Talk

Team: Contributors



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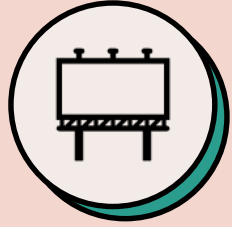
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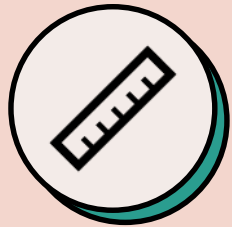
AGENDA



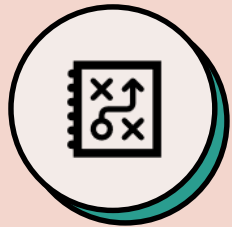
Problem Statement



Solution



Use Cases



Future Work



Business Model

Problem Statement

Communicating with deaf individuals can be challenging due to the language barrier. While they are proficient in sign language, not everyone is familiar with this form of communication. Additionally, when they do speak, their speech may differ from that of a typical person. Conversely, deaf individuals may face difficulties understanding spoken language, leading to emotional distance and, unfortunately, making them targets for ridicule. Consequently, these challenges hinder their ability to play a significant role in society, emphasizing the importance of fostering understanding and inclusivity for the deaf community.



Solution

We aim to facilitate seamless communication between the deaf and normal individuals, empowering deaf individuals to fully utilize their capabilities in society. Leveraging the technologies provided by **Clarfai** , we propose a solution that provides easy understanding between both the deaf and hearing communities.



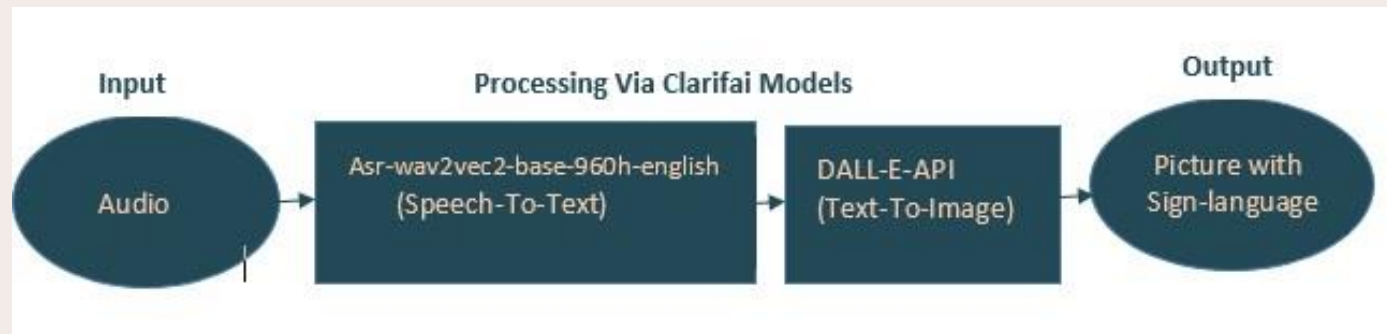
UseCase#1

For example "I'm deaf and you are a normal person you as a normal person want to understand what I'm saying to you. You will click my picture with sign language then you will enter prompt for gpt4 vision model. Prompt " deaf person and want to tell me something " and then model will tell you by recognizing my sign language in picture."



UseCase#2

For example “When I deaf want to understand you normal person then I will record your voice in our app then audio to text model will convert your audio to text and then DALL-E model will convert text to image means sign language for me then I will understand you”



Future Work:

1. We plan to enhance the performance of Large Language Models (LLM) by fine-tuning them with a sign language dataset, aiming for more effective results.
2. The optimization of LLM will involve fine-tuning with the most successful prompts to ensure optimal performance.
3. The application will be capable of delivering results in multiple languages, including but not limited to Urdu, Hindi, and German.
4. Additional features related to sign language will be incorporated into the application to assist mothers in teaching and understanding their deaf children right from birth. Mothers will find it easier to instruct sign language to their children using our application.
5. We will introduce features specifically designed for the deaf community, facilitating improved communication and learning experiences.
6. Special features will also be added to assist individuals with speech impairments, providing valuable resources for those who are non-verbal.



Future Work:

7. Harness Tonic.ai for efficient data management (privacy, optimization, scarcity).
8. Personalize learning with Tonic.ai generated sign language data (demographics, variations, needs).
9. Build responsible AI with Tonic.ai's privacy-first approach (secure handling, compliance).



Business Idea:

- 1.** Our application will prove valuable for the deaf community across various aspects of life. Numerous organizations will utilize our platform to better understand and educate individuals with hearing impairments.
- 2.** The app will create new opportunities for the deaf, spanning areas such as employment, education, and communication. Enhanced communication abilities will empower them to excel in various endeavors.
- 3.** It enables them to lead lives similar to those of hearing individuals. The user-friendly nature of our mobile application, coupled with the widespread availability of smartphones, ensures that anyone can easily access and benefit from it.
- 4.** As we incorporate additional functionalities, we will actively recruit and compensate deaf individuals who will, in turn, use our app to educate others facing similar challenges.



Business Idea

5. The app will feature advertisements from different brands to support its continued availability and development.
6. In the future, we plan to introduce a subscription model, allowing parents to learn and teach sign language to their children more effectively.
7. Additionally, we aim to establish partnerships with the government to provide free access to schools specifically catering to deaf and mute students.



THANK YOU

