

Ideation Phase

Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID09233
Project Name	Real-Time Communication System Powered by AI for Specially Abled
Maximum Marks	2 Marks

I am

The main customer for our project are:

1. People who want to communicate with deaf and mute people.
2. Deaf and mute individual who desire to communicate with others.

I'm trying to

1. Communication during the time of emergencies.
2. Everybody cannot afford to have a human translators of sign language and they may not be available all the time and they are quite expensive.
3. People who engage in conversation with deaf and mute people will find it hard and tedious.
4. Deaf and mute people may lose a lot of opportunities because they cannot speak or express their thoughts verbally in situations like an interview.

But

Not everyone understands the sign language. Hence, it becomes difficult for the disabled to communicate in day-to-day life. Sign language is the only tool of communication for the person who is not able to speak and hear anything. Sign language is a boon for the physically challenged people to express their thoughts and emotions.

Because

Currently, the technological advancements pull everyone into the digital lifestyle. Thus, giving rise to the problem of communication through the internet, for the deaf and mute people, who are familiar only with the sign language they know. Here comes the necessity to build a sign language recognition system, through which the computer can be made to recognize and interpret sign language and translate it for the required task.

Which makes me feel

People with disabilities stand to benefit significantly from AI-powered solutions, which will help them with daily tasks and provide them the chance to learn new skills. The project aims to develop a system that converts the sign language into a human hearing voice in the desired language to convey a message to normal people, as well as convert speech into understandable sign language for the deaf and mute.