

Ideation Phase

Define the Problem Statements

Date	28 October 2022
Team ID	PNT2022TMID28925
Project Name	Real time communication powered by AI for specially abled person
Maximum Marks	2 Marks

Problem Statement:

In our society, we have people with disabilities. The technology is developing day by day but no significant developments are undertaken for the betterment of these people. Communications between deaf-mute and a normal person has always been a challenging task. It is very difficult for mute people to convey their message to normal people. Since normal people are not trained on hand sign language. In emergency times conveying their message is very difficult. The human hand has remained a popular choice to convey information in situations where other forms like speech cannot be used. Voice Conversion System with Hand Gesture Recognition and translation will be very useful to have a proper conversation between a normal person and an impaired person in any language. 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 dumb. We are making use of a convolution neural network to create a model that is trained on different hand gestures. An app is built which uses this model. This app enables deaf and dumb people to

convey their information using signs which get converted to humanunderstandable language and speech is given as output.

I am	Mr. Raju is a person with a disability. He was having trouble conversing with others.
I'm trying to	Through associated technologies, I can lead an active lifestyle.
But,	I was unable to console him because carrying a device about was uncomfortable for me.
Because	I am not comfortable carrying a device around every day and acting in a manner befitting of normal people..
Which makes me feel	I am carrying a weighted device is an inconvenience when people around us.

I am Disabled person	I'm Trying to lead an active lifestyle.	But, I was unable to console him because carrying a device about was uncomfortable for me.	Because I am not comfortable carrying a device around every day and acting in a manner befitting of normal people..	Which Makes Me Feel I am carrying a weighted device is an inconvenience when people around us.
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Problem Statement (PS)	I am	I'm trying to	But	Because	Which makes me feel
PS-1	Disabled person	Without struggling to speak with others.	carrying a device about was uncomfortable for me.	I don't feel confident	More Annoying

PS-2	Disabled person	lead an active lifestyle.	I was unable to console him because carrying a device about was uncomfortable for me..	I am not comfortable carrying a device around every day and acting in a manner befitting of normal people..	I am carrying a weighted device is an inconvenience when people around us.
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