

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID42209
Project Name	Real - Time Communication System Powered by AI for Specially Abled
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Communication 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 in emergency times as well as in normal times.
2.	Idea / Solution description	<p>1. 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.</p> <p>2. To design and implement a system using artificial intelligence, image processing and data mining concepts to take input as hand gestures.</p>
3.	Novelty / Uniqueness	<p>We are using a convolution neural network to create a model that is trained on different hand gestures and an app is built for the use of this mode.</p> <p>1. Artificial Intelligence developed the app called GnoSys that uses neural networks and computer vision.</p> <p>2. It recognizes the video of sign language speaker and then smart algorithms translate it into speech.</p>
4.	Social Impact / Customer Satisfaction	<p>1. The main purpose of this application is to make deaf-mute people feel independent and more confident.</p> <p>2. About two thirds of people with a mobility and dexterity disability are most likely to experience a great deal of difficulty with everyday activities.</p>
5.	Business Model (Revenue Model)	<p>1. AI can generate revenue through direct customers and collaborate with health care sector and generate revenue from their customers.</p> <p>2. B2B setting uses to employ deaf and mute employees can use to convey messages according to the company.</p>

6.	Scalability of the Solution	<p>1.Enhance people with disabilities to step into a world where their are facing difficulties in communication.</p> <p>2.AI technology helps disabled people to open up new opportunities for accessibility inclusion in society and independent living.</p> <p>3. It might open the door to more cutting edge and creative approaches to the most difficult problems facing disadvantaged People.</p>
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