

Project Design Phase-I
Proposed Solution
Template

Date	12 October 2022
Team ID	PNT2022TMID22007
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	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. 2. To design and implement a system using artificial intelligence, image processing and data mining concepts to take input as hand gestures.
3.	Novelty / Uniqueness	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. 1. Artificial Intelligence developed the app called GnoSys that uses neural networks and computer vision. 2. It recognizes the video of sign language speaker and then smart algorithms translate it into speech.
4.	Social Impact / Customer Satisfaction	1. The main purpose of this application is to make deaf-mute people feel independent and more confident. 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.
5.	Business Model (Revenue Model)	1. AI can generate revenue through direct customers and collaborate with health care sector and generate revenue from their customers. 2. B2B setting uses to employ deaf and mute employees can use to convey messages according to the company.

6.	Scalability of the Solution	<p>1.Enhance people with disabilities to step into a world where there 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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