

## Project Design Phase – 1 Proposed Solution

<b>Date</b>	22 September 2022
<b>Team ID</b>	PNT2022TMID23065
<b>Project Name</b>	Real-Time Communication System Powered by AI for Specially Abled
<b>Maximum Marks</b>	2 marks

### Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	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.
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	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. About two thirds of people with a mobility and dexterity disability are most likely to experience a great deal of difficulty with everyday activities. 2. The main goal of this application is to increase the independence and self-assurance of deaf-mute people.

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. AI technology helps disabled people to open up new opportunities for accessibility inclusion in society and independent living.</p> <p>2. It might open the door to more cutting-edge and creative approaches to the most difficult problems facing disadvantaged people.</p>