Project Design Phase-I Proposed Solution

Date	1 October 2022
Team ID	PNT2022TMID23882
Project Name	Real-Time Communication System Powered By AI For Specially Abled
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	People get to know one another by sharing their ideas, thoughts, and experiences with those around them. There are numerous ways to accomplish this, the best of which is the gift of "Speech." Everyone can very convincingly transfer their thoughts and understand each other through speech. In such cases, the human hand has remained the preferred method of communication.
2.	Idea / Solution description	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.
3.	Novelty / Uniqueness	A system that translates sign language into a human understandable language so that ordinary people may understand it.
4.	Social Impact / Customer Satisfaction	As different sign language standards exist, their dataset can be added, and the user can choose which sign language to read.
5.	Business Model (Revenue Model)	The model only works from alphabets A to I

6.	Scalability of the Solution	It is possible to create a mobile application to bridge the communication gap between
		deaf and dumb persons and the general public. 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 human-understandable language and speech is given as output.