

Project Design Phase-I
Proposed Solution Template

Date	16 November 2022
Team ID	PNT2022TMID43692
Project Name	Real - Time Communication System Powered by AI for Specially Abled

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Conversation between deaf-mute people and normal people is a very challenging task. It is most difficult to communicate during the emergency period.
2.	Idea / Solution description	<ul style="list-style-type: none">To design and implement a system using artificial intelligence, Data mining and image processing concepts to take input as hand gestures.Hand gestures is converted as the voice message and convert the voice system into hand gestures are the technique useful for the conversation between deaf-mute people and normal people.

3.	Novelty / Uniqueness	<p>By using a convolution neural network to create a model that is recognise on different hand gestures,voice and an app is built for the use of this mode.</p> <ul style="list-style-type: none"> • Artificial Intelligence developed the app called handtalk that uses neural networks and computer vision. • Hand Talk app automatically translates text and audio to American Sign Language (ASL) [Beta] and Brazilian Sign Language. • It recognizes the video of sign language and then converted into voice by the smart algorithms .
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> • The main purpose of this application is to make the deaf-mute people to easy communicate like normal people and they avoid hesitation to talk freely. • About quater of the people with a disability are most of them experience a great difficulty with day to day activities.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> • By using the AI the specially abled people can work any job.They can revenue from their customer. • Business to Business (B2B) uses to work deaf and mute employees can convey the message directly according to the company.
6.	Scalability of the Solution	<ul style="list-style-type: none"> • Enhanceing the deaf-mute people with their disabilities to step into a world where they facing difficulties for the communication. • The AI technology helps specially abled people to open up their knowledges and enhance the opportunities in society and independent living. • This technology gives hope to the specially abled people to survive in the world.