

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID44057
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)	<p>The main purpose of this research is to enhance the communication of the disabled people.</p> <p>A disability is any condition of the body or mind that makes it more difficult for the person with the condition to do certain activities and interact with the world around them .</p> <p>Disability person faced by them biggest challenge is communication.</p>
2.	Idea / Solution description	<p>AI tool that makes it easier for speech-impaired users to be understood by turning impaired speech patterns into fluent speech.</p> <p>Advancements in AI technology have also made it possible to develop tools that make the lives of people with hearing disabilities easier.</p> <p>The AI-based app uses neural networks and computer vision to translate gestures or sign language into text and speech instantly.</p>
3. 4	Novelty / Uniqueness	<p>AI-powered self-driving cars and other forms of autonomous transportation promise incredible freedom of mobility for house-bound individuals with disabilities.</p> <p>Artificial Intelligence, autonomous vehicles developed by Google's Waymo, Uber, Lyft, Drive AI, and others could eliminate physical isolation for such people and promote a more social lifestyle.</p>

		<p>Advances in speech-to-text and text-to-speech technologies come to aid those living with speech impediments. The app may also be used to help people with speech impairments communicate face-to-face with each other.</p>
4.	Social Impact / Customer Satisfaction	<p>AI has a huge impact on people with disabilities' everyday lives: a person with a mental impairment can easily comprehend the world around him thanks to text summarization. Nearly 4 billion people in the world use Google search engine, therefore AI, which is perceived as a social good. Anybody can have access to it including people with disabilities.</p>
5.	Business Model (Revenue Model)	<p>AI technology concerns any field and can thus enhance accessibility even at home. Virtual assistants can improve everybody's lives and it's particularly striking for people with disabilities. Artificial intelligence truly revolutionizes accessibility and inclusion! Thanks to AI technology solutions, people with disabilities can drastically improve their everyday lives.</p>
6.	Scalability of the Solution	<p>Disabled people can interact through the web browser and the application they can sign in by using their own account and reviewing their own basic information, recording basic information such as name, age, disability, gender, disability, addresses and photos at work. AI enables people with disabilities to step into a world where their difficulties are understood and taken into account.</p>