

<sup>5</sup>**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID37989
Project Name	Project - Real time communication system powered by AI for specially abled
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
	Problem Statement (Problem to be solved)p	communication system needs some modifications before transferring different speech signals simultaneously on the same and/channel. The signals are sampled from analog audio signals with an introduction of quantization noise and sampling degradation.
	Idea / Solution description	<p>Artificial intelligence is not designed to replace humans but rather to enhance our lives by helping us do things we are unable to do on our own. Many companies are working on this type of research, including Google Deepmind, IBM Watson, Apple Siri, Microsoft Cortana, etc., which means there will likely be many new developments soon. These innovations could positively impact everyone's life – even those without disabilities – because they make everyday tasks easier and less time-consuming.</p> <p>Here are a few technologies that have a direct impact on Specially Abled lives:</p> <p>Facial Recognition</p>

	Novelty / Uniqueness	<p>Artificial intelligence is not designed to replace humans but rather to enhance our lives by helping us do things we are unable to do on our own. Many companies are working on this type of research, including Google Deepmind, IBM Watson, Apple Siri, Microsoft Cortana, etc., which means there will likely be many new developments soon. These innovations could positively impact everyone's life – even those without disabilities – because they make everyday tasks easier and less time-consuming.</p> <p>Here are a few technologies that have a direct impact on Specially Abled lives:</p> <p>Facial Recognition</p>
	Social Impact / Customer Satisfaction	<p>Health monitoring</p> <p>Rehabilitation</p> <p>Indoor navigation aid</p> <p>Real time tracking of disabled people</p> <p>Assisted living</p> <p>Home Medical Assistance</p> <p>Privacy, safety or standardization</p>
	Business Model (Revenue Model)	<p>GIS have been used mainly in understanding infectious diseases and environmental threats in health research. GIS is also used to examine patterns of functional disability as one impact of chronic disease. Geographical sampling and analyses is used for this purpose. Based on the accurate ground survey that provide ground truth, thematic maps are generated that give visualize results showing type of disability, its causes, geographic locations, population, gender, age group, etc.</p>

	Scalability of the Solution	<p>The inability to communicate will hamper us from moving forward as an individual and as a community, robbing us from a normal life. Humans have tried ways to communicate since the beginning of time and communication has evolved throughout ages. It is a complex process triggering many senses and it comes naturally to most of us. Unfortunately there is a small group of people with physical and communication disabilities since birth. To assist these people in their communication needs, we propose an improved real time behaviour monitoring application for the disabled by employing a real time facial expression recognition system and Short Messaging System (SMS) to send notification to the third party for monitoring purposes. Our proposed automated real time behaviour monitoring has been designed and implemented with the ubiquitous and affordable concept in mind which suits the underprivileged who suffers from both physical and communication disabilities</p>
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