

PROJECT DESIGN PHASE 1

PROPOSED SOLUTION

DATE	18 October 2022
TEAM ID	PNT2022TMID18759
PROJECT NAME	Real time communication system powered by AI for specially-abled
MARKS	2 marks

PROPOSED SOLUTION:

S.NO	PARAMETERS	DESCRIPTION
1.	Problem Statements (Problem to be solved)	Coining the term "specially-abled" to replace "disabled" was perhaps the most significant positive step towards creating an inclusive workplace. Not only did it help in breaking the shackles of incapacity and low self-esteem, but it also reinforced a feeling of empathy in the ecosystem that has proved to be invaluable in downplaying the stigma attached to a disabled person. You will now find people welcoming the specially-abled to the workplace, helping them adjust to their work environment and treating them at par with other members of the team.
2.	Idea/Solution description	We are making use of a convolutional 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 as output.

3.	Novelty/Uniqueness	<p>Creating new tools could help integrate a segment of our population that has often been left out of routine daily life activities and job opportunities. The unemployment rate is twice as high for Americans with disabilities, according to the Bureau of Labor Statistics. Worldwide, only one in 10 people who could use assistive products have access to them. Disabilities, whether related</p>
		<p>to vision, hearing, mental health, learning, cognition, or mobility, can be permanent, temporary, or even situational. Designing new products with different levels of abilities in mind—a concept called inclusive design—has gone a long way in ensuring that technology works for everyone.</p>
4.	Social impact/ Customer Satisfaction	<p>Communicating with others and being connected. Depending on the type of disability and profile, communicating with others can be a challenge. The same holds true for staying connected to others in a world that's more and more digitized with the growing importance of social media and our dependence to the Internet. But technology and AI leave no one behind and can beat the service of people with disabilities. A lot of apps use artificial intelligence to favor accessibility.</p>
5.	Business model (Revenue model)	<ul style="list-style-type: none"> • able to get accurate results • easy to use for specially abled • specially abled person can use this feature by their own • low cost
6.	Scalability of the solution	<ul style="list-style-type: none"> • This model ensures the safety and accuracy of specially abled • specially abled persons and their family need not to worry about their future