Project Design Phase-I Proposed Solution Template

Date	17 NOV 2022
Team ID	PNT2022TMID46846
Project Name	Project – Real -Time Communication
	SystemPowered 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
1.	Problem Statement (Problem to be solved)	To provide an Efficient communication app which translates the hand signs into text and voice mode for deaf and dumb people.
2.	Idea / Solution description	 Convolution Neural Networks are to be used to take hand sign as an input to extract edges, corners. Dataset is used for training CNN. One dataset for hand detection and the other for gesture detection. Voice assistant is implemented that take input asspeech patterns and convert the text into voice.
3.	Novelty / Uniqueness	We have number of symbols to be trained for our project and many of them look similar to each other like the gesturefor symbol 'V' and digit '2' . To produce better accuracies, we keep the background of hand a stable single colour, sothat we don't need to segment it on basis of skin colour.
4.	Social Impact / Customer Satisfaction	 Al enables people with disabilities to lead anindependent life with this app. Supporting them in activities of daily living . It changes the mind set of the disabled, that eventhey can too be involved in a common conversation like others.
5.	Business Model (Revenue Model)	Faster and efficient , the concerned text

	 or voice asoutput is produced, the more it leads to optimize the app with new advancements. The productivity is gained and at the same time, leads to improved speed of business.
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