LITERATURE SURVEY

Date	19 September 2022
Team ID	PNT2022TMID48155
Project Name	Real Time Communication System Powered By AI For Specially Abled
Maximum Marks	2 Marks

S.No	Journal and Authors	Title	Methodology	Pros	Cons	Inference
1	International Journal of Advanced Trends in Computer Science and Engineering **Authors** - Bayan Mohammed Saleh, -Reem Ibrahim Al Beshr's -Muhammad Usman Tariq	D-Talk: Sign Language Recognition System for People with Disability using Machine Learning and Image Processing -2020	-Multilayer Network -Neural network	This paper focuses on the classification methods used in the prior recognition scheme for sign Recognition.	The system is very sensitive. It catches any element in the box. So, the user must be careful to have a blank background	Gesture interpretation works best in case users who understand sign language may interact with people who are unfamiliar with sign language
2	International Journal of Innovative Research in Science, Engineering and Technology **Authors** -Kedar Potdar -Gauri Nagavkar	Real-time Communication System for the Deaf and Dumb – 2017	-Flex sensors -Arduino	These electrical signals are then processed using an Arduino microcontroller and a Python-based backend for text-to-speech conversion	TTS functionality can be eliminated by adding a portable computer like the Raspberry Pi	The function of this unit is to read the gesture and fetch the corresponding letter. A voltage divider circuit is used between the Arduino Uno board and the sensors.
3	American-Eurasian Network for Scientific Information **Authors** -D.Narashiman -T.Mala	Sign gesture representation using and-or tree -2015	-Sign gesture rendering - Dynamic sign generation	The advantage of the proposed method over the earlier method is that the location of the hand position is clearly mentioned.	unavailability of good sign language tutor, lack of importance to that community	If any new phonemes is to insert it can be done in constant time as they will directly attached to the leaf or external node
4	International Journal of Engineering Research & Technology (IJERT) **Authors** -Deepa S -R Vaneeta -M Sangeetha -V Mamatha A	Hand Sign Communication System for Hearing Imparied -2015	-HandSimulation -Java3D -3D graphics	simultaneously combining handshapes, orientation and movements of the hands , facial expressions, arms or body, and to fluidly express a speaker's thoughts	low the database of the preconfigured handshapes to enable signing of more words and ideas too.	The proposed method provides the means by which children at schools will be benefited by using it as an educational too
5	Intelligent Technologies for Communication, Learning and Teaching	Assistive and Augmentive Communication for the Disabled -2014	-Viola -Jones Face	an enhanced interpersonal-human interaction for people with special needs,	This would be another domain for further research on how a machine	In facial expression recognition system, we employed Viola-Jones face detection algorithm

Authors -Lau Bee Theng		-DetectionAlgorithm	especially those with physical and communication disabilities	could distinguish different emotional state but reflected with the same facial expression	which is commonly used by researchers to detect the subject face