

LITERATURE SURVEY

Date	4 NOVEMBER 2022
Team ID	PNT2022TMID13334
Project Name	Real-Time Communication System Powered by AI for Specially Able
Maximum Marks	4 Marks

S.NO	AUTHOR NAME	TOPIC	YEAR	EXISTING SYSTEM
1.	J.Thilagavathy, A.JeyapaulMurugan, S.Darwin	Embedded based hand talk assisting system for deaf and dumb	2014	In our day to day life most of the task we carry out involves speaking and hearing. The deaf and dumb people have difficulty in communicating with others who cannot understand sign language and misinterpreters. In this paper, we designed a simple embedded system based device for solving this problem.
2.	J.P.Bigham, C.Jayant, A.Miller, B.White	IEEE Computer Society Conference on Computer Vision and Pattern Recognition-Workshops	2010	Add-on feature was implemented, providing some extra benefits, these being saving sentences and even paragraphs with keywords. This would help dumb people to easily and quickly communicate with people who do not know sign languages. This process was around 70% faster. Audio Books were added to help blind people with books.
3.	H.Belghit, A.Bellarbi	Object Recognition Based on ORB Descriptor for Markerless Augmented Reality.	2017	The converter of speech to text and text to speech would make the interaction with the devices and others for blind and dumb people better with a conclusion.
4.	Aditya Sharma, Aditya Vats, Shiv Shankar Dash, Surinder Kaur	Artificial Intelligence enabled virtual sixth sense	2020	The sixth sense is a multi-platform app for aiding the people in need that is people who are handicapped in the form of lack of speech (dumb), lack of hearing (deaf), lack of sight (blind), lack of judicial power to differentiate

		application for the disabled		between objects (visual agnosia) and people suffering from autism (characterized by great difficulty in communicating and forming relationships with other people and in using language and abstract concepts)
5.	<u>Roberto Manduchi</u>	Blind guidance using mobile computer vision	2010	The usability of a wayfinding and localization system for persons with visual impairment. This system uses special color markers, placed at key locations in the environment, that can be detected by a regular camera phone
6.	Snehal Pawar , Pragati Salunke , Arati Mhasavade , Aishwaraya Bhutkar, K. R. Pathak	Real Time Identification of American Sign Language- HBRP Publication.	2019	The only way for deaf and dumb for communication is based on sign language which involves hand gestures. In this system, we are working on the American Sign Language (ASL) dataset (A-Z), (0-9) and word alphabet identification escort by our word identification dataset of Indian Sign Language (ISL). Sign data samples to be making our system more faultless, error free, and unambiguous with help of Convolutional Neural Network (CNN).