REAL-TIME COMMUNICATION POWERED BY AI FOR SPECIALLY-ABLED

S.No	TITLE	PROPOSED	TOOLS USED/	TECHNOLOGY	ADVANTAGES/
1	Artificial Intelligence enabled virtual sixth sense application for the disabled	WORK The sixth sense is a multiplatform app for aiding people in need that is people who are handicapped in the form of lack of speech (dumb), lack of hearing (deaf), or lack of sight	ALGORITHM ❖ ML OCR kit ❖ Firebase ML toolkit ❖ Google Web toolkit TTS	 Android smartphones Object Detection Text Recognition AP 	Help dumb people to easily and quickly communicate with normal people./The application still does depend on the camera picture quality for object detection
2	Design of a Communication System using Sign Language aid for Differently Abled Peoples.	(blind). Our goal is to design a human computer interface a system that can accurately identify the language of the deaf and dumb.	 Feature Extraction Sign to text and Speech Conversion Image preprocessing and segmentation. 	 Blob Detection Skin color recognition Template Matching 	Hand gestures of deaf people by normal peoples this system is proposed and it gives output in the form of sound./A mediator is required to know the sign language
3	D-Talk: Sign Language Recognition System for People with Disability using Machine Learning and Image Processing	D-talk is a system that allows people who are unable to talk and hear and for them to learn their language easier and also for the people that would interact with them.	 Image Recognition process Object Detection Gesture Recognition HSV Algorithm. 	 Machine learning Deep learning Decision tree 	Speech interpretation is helpful for sign language nonspeakers who wants the hand sign to understand./ The type of inaccuracy can emerge from users, such as poor web camera

4	Real-time Communication System for the Deaf and Dumb	Aims to aid the deafmute by creation of a new system that helps convert sign language to text and speech for easier communication with audience.	❖ Flex sensor❖ Arduino Uno❖ Arduino IDE	 Python Programming Language Gesture recognition 	The system forms the base infrastructure for a complete communicational aid system for the deaf and mute./it requires logical mechanism for classification of letters based on sensor values.
5	AN ANDROID APPLICATION TO AID UNEDUCATED DEAF DUMB PEOPLE	In this paper, we introduce an integrated android application to blend uneducated DeafDumb people within society, and help them to communicate with normal people.	Sign language keyboard app	EclipseSQL LiteJava	Offer a great tool for parents to teach their deaf and dumb kids And Introduce Sign language keyboard./this application introduces an easy translator from sign language to English or Arabic language.
6	A Sign Language Recognition for The Deaf and Dumb	It is a software which presents a system prototype that is able to automatically recognize sign language to help deaf and dumb people to communicate more effectively with each other or normal people	 Gesture classification CNN model Hand gesture ANN 	❖ OpenCV feature❖ extraction	A functional real time vision based American sign language recognition for Deaf and Dumb people have been developed with accuracy of 92%. /We couldn't find any existing dataset.