REAL TIME COMMUNICATION POWERED BY AI FOR SPECIALLY ABLED PEOPLE

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LITERATURE SURVEY

S.NO	TITLE	YEAR	AUTHOR	OBJECTIVE	TECHNIQUES	RESULT	DISADVANATGE
1.	“Indian Sign Language recognition”	2012	Divya Deora ,Nikesh bajaj	This represents a framework for a human –laptop interface able to spot gestures from the ISL	CNN PCA Viola-Jones face detection algorithm	Alphabets and numbers were identified successfully	It was not practical as sign language is a flow or sequence of alphabets or phrases .
2.	“On the challenge of classifying 52 hand movements from surface electromyography”	2012	Ilja Kuzborskij , Arjan Gijsberts, Barbara Caputo	The stage of dexterity of myoelectric hand prostheses relies volume at the characteristics illustration and next category of floor electromyographic signals .	Cross recurrence plots (CRPs) cross recurrence quantification analysis (CRQA)	This provides a contrast of diverse characteristics extraction and category strategies on huge –scale floor electromyography database .	Inability to accurately distinguish the synchronization from methodological effects related to a rectification artifact and variation in the signal-to-noise ratio.

3.	“Real time Hand gesture recognition using the Myo armband and muscle activity detection”	2017	Macro E.benalcazar ,Cristhian Motoche , Jonathan A.zea , Andres G Jarmillo ,carlo	To present hand gesture reputation in actual time	This version takes as enter the floor electromyography (EMG) measure at the muscle groups of forearm through myo armband.	The result is obtained.	The proposed version can discover ways to approach any gesture of the hand thorough an education process.
4.	“Dynamic Hand Gesture Recogntion Using 3D CNN”	2017	Mithun Channayanamath Akshay Math ,Venkat Pedigari, Shilpa Kmath, Kavita Chachadi , Faisal Sabeeh Ameen Attar	To discover Hand gestures and to gift a quick and green set of rules for classifying exceptional dynamic hand gestures in the usage of 3D – convolutional neural networks	CNN Vision based Approaches (3D model based)	Discover hand gestures .	The current conventional Answers aren’t sturdy to discover hand gestures with excessive accuracy withinside the presence of complicated styles in acting Hand gestures.

5.	“Deep Gesture : Static Hand Gesture recognition “	2018	Aparna Mohanty , Sai Saketh Rambhatla , Rajiv Ranjan Sahay	This presents modern day strategies challenged because of muddling withinside the background.	CNN to discover Hand postures .	To know the Framework to discover hand gestures accurately	There is not proper segmentation
6.	“Good vibes”	2018	Cheil	Two-way communication tool for the deaf.	The app can take ‘tactile input’ and transmit it as ‘tactile output.’ The app has no visible UI, and works on a set of hand gestures and taps, helping the deaf-blind to connect and chat with each other from wherever they are.	The results are obtained and the accuracy is high.	Non-intuitive and difficult to navigate within and between applications.

7.	“Practikality”	2019	Padam Chopra, Keshav Maheshwari , Aryaman Agrawal	“To build a practical sound solution “ to a problem in our society and to enhance the communication for specially abled people .	Machine Learning Self Trained Convoluti onal neural network	The result has been obtained. system has produced a better accuracy that is somewhat higher than existing systems it is capable of converting the text ,sign to voice.	They developed app for specially abled people(deaf ,mute, blind) But they mostly concentrated on sound which is not that much user-friendly to deaf people .
8.	“Lose Hand Gesture Recognition using CNN”	2020	Chen-Ming & Din-chang Tseng	It represents a framework for a Human –Laptop Interface able to spot gestures from Indian Sign Language .	Convoluti onal Neural Network Principal Compone nt Analysis	Alphabets and numbers were Identified Successfully . It additionally proposes reputation with neural networks.	The complexity of Indian Sign Language reputation Device will increase because of the involvement of each palms and additionally the overlapping of palms

9.	“Hand Gesture Recognition Using CNN”	2021	Preetha Lakshmi ,Aparna ,Gokila Prithviraj Rajalakshmi.	This website helps to know the strategies and CNN to understand and classify hand gestures lively	CNN Hand Gesture Recognition based on Static Gesture set and HSI and CIELAB color space	Able to discover and classify the gesture into one of the described categories .	Notwithstanding Versions in hand sizes and spatial functions withinside of photograph .