Literature Survey

S.NO	YEAR	TITLE	AUTHOR	DESCRIPTION
1	2017	**Machine Learning Techniques for Indian Sign Language Recognition**	Kusumika Krori Dutta, Sunny Arokia Swamy Bellary	Over the years, communication has played a vital role in exchange of information and feelings in one's life. Sign language is the only medium through which specially abled people can connect to rest of the world through different hand gestures. With the advances in machine learning techniques, Hand gesture recognition (HGR) became a very important research topic.
2	2019	Two Hand Indian Sign Language dataset for benchmarking classification models of Machine Learning	Leela Surya Teja Mangamuri, Lakshay Jain Abhishek Sharmay	THISL dataset was benchmarked on six different classification models of machine learning by changing the parameters. Classification models are evaluated based on the HOG features extracted from the skin filtered image. An overall accuracy of 91.72% was achieved comprising of all machine learning models.
3	2015	Indian Sign Language Animation Generation System	Sandeep Kaur, Maninder Singh	This paper describes a system which generates HamNoSys corresponding to 100 words. These Notations are generated according to the Indian Sign Language. This system covers all the simple words to generate HamNoSys. This system has been tested on 100 words and results of the system are very encouraging.

4	2017	Moment Based Sign Language Recognition For Indian Languages	Umang Patel, Aarti G. Ambekar	processed image, next step is feature extraction & followed by classifier, recognized gestures are displayed as Hindi & English text & played as Hindi & English audio.
5	2016	K-Nearest Correlated Neighbor Classification for Indian Sign Language Gesture Recognition using Feature Fusion	Bhumika Gupta, Pushkar Shukla, Ankush Mittal	INDIA proposed that recognition of gesture of Indian Sign Languages using static images where a test image is first categorized into a single or double handed gesture followed by its classification using a fusion of SIFT and HOG descriptors via K-Nearest Correlated Neighbours
6	2015	Double Handed Indian Sign Language to Speech and Text.	Kusurnika Krori Dutta , Satheesh Kumar Raju , Anil Kumar G , Sunny Arokia Swarny	The system is trained with double handed sign language by using a minimum eigenvalue algorithm. Here Logitech web camera is used for image acquisition and processing is performed in MATLAB.

REAL TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED

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THANK YOU