

IDEATION PHASE

LITERATURE SURVEY

Date	18 th September 2022
Team ID	PNT2022TMID35886
Project Name	Real-Time Communication System Powered by AI for Specially Abled

Authors	Paper Title	Publication	Remarks
P. Vijayalakshmi and M. Aarthi	Sign language to speech conversion	2016 International Conference on Recent Trends in Information Technology (ICRTIT)	They have designed a sensor-based gesture recognition module that recognizes English alphabets.
Mahesh Kumar N B	Conversion of Sign Language into Text	International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 9 (2018)	In this model, the Linear Discriminant Analysis (LDA) algorithm was used for gesture recognition and recognized gesture is converted into text and voice format.
Abey Abraham, V Rohini	Real time conversion of sign language to speech and prediction of gestures using Artificial Neural Network	Procedia Computer Science, Volume 143, 2018	The proposed device makes use of an Arduino Uno board, a few flex sensors and an Android application to enable effective communication amongst the users.
Bharti, Ritika and Yadav, Sarthak and Gupta, Sourav and B, Rajitha	Automated Speech to Sign language Conversion using Google API and NLP	Proceedings of the International Conference on Advances in Electronics, Electrical & Computational Intelligence (ICAEEC) 2019	The proposed system first recognizes the speech, the second converts it to text, third matches tokenized text with the visual sign word library (videos of sign language), fourth concatenates all the matched videos according to the text recognized and finally display the merged video to the deaf/dumb person.