

Sign Language to Text Transcript

Abstract

Sign language is the way of communication for hearing impaired people. There is a challenge for common people to communicate with deaf people which makes this system helpful in assisting them.

This project aims at implementing computer vision which can take the sign from the users and convert them into text in real time.

The proposed system contains four modules such as: image capturing, pre-processing classification and prediction. By using image processing the segmentation can be done. Sign gestures are captured and processed using OpenCV python library. The captured gesture is resized, converted to grey scale image and the noise is filtered to achieve prediction with high accuracy. The classification and predication are done using convolution neural network.

The converted real-time text gets appeared on text box. Generated text can be edited if necessary and an option to save it on clipboard which can be pasted on any application we want.

The main features of this project are:

- It allows for all people who depends on sign language for effective communication.
- It helps to learn sign language for those who wish to learn sign language.
- Provides accurate sign language conversions in real-time.
- The converted text can be copied to any application.

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