**Sign Language Detection and Conversion to Text Using CNN and OpenCV**

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**Abstract:**

Computer vision has been rose as an important domain of research nowadays. With the technological trend in man-machine interfaces and the machine intelligence, these powers are used for making the life of the people easier and less complex. Communication plays an important role in our daily life, but when it comes to the area of deaf and dumb people it becomes very difficult. The only way out from this is sign language which is unknown to normal people. This paper focuses on making an interface between the normal people and that deaf and dumb people with the help of computer vision. To do so first a classification model is built to identify the sign alphabet using CNN and then for real time application the hand gesture sign is detected using OpenCV and fed to the model to make the final prediction. And after recognition it is converted to text for further use.

**Work Plan:**

