Paper-1

Static Sign Language Recognition using Deep Learning

Communication is essential in building a nation & Good communication leads to better understanding - which is important for all including the dumb & deaf. Therefore, this papers exhibits a system that will recognize static sign gestures and convert them into corresponding words. A vision-based approach using a web-cam is introduced to obtain the data from the signer and can be used. This system is based on a skin-colour modelling technique, that is explicit skin color space thresholding. The skin-color range is predetermined that will extract pixels (hand) from non-pixels (background). The images were fed into the model called CNN for classification of images. keras was used for training of images. Provided with proper lightning condition and a uniform background, the system

acquired an average testing accuracy of 93.67%. of ~~each~~ ~~signs~~. This approach is used for fast computation and is done in Real time

Since the main objective of ~~the~~ our project is to develop a system that can translate sign language in to its corresponding word equivalent that includes letters, numbers & basic sign language. gestures, by going through this literature paper we were able to understand more.