

Real Time Indian Sign Language Detection System

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Abstract: Sign language, as a different form of the communication language, is important to large groups of people in society. There are different signs in each sign language with variability in hand shape, motion profile, and position of the hand, face, and body parts contributing to each sign. A challenging area of computer vision research is the recognition of visual sign languages. In recent years, deep learning techniques have significantly improved the many models that have been suggested by various academics. We examine the deep learning-based vision-based models for sign language recognition. An important advancement in enhancing communication between the deaf and the overall populace is a real-time sign language detector. We are glad to present the development and application of a model for recognizing sign language based on a Convolutional neural network (CNN). We utilized a pre-trained SSD mobile net V2 architecture trained on our own dataset in Order to apply transfer learning to the task.

Keywords: Machine Learning, Python, OpenCV, Sign Language Recognition, TensorFlow..

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