Deep Learning based Sign Language Detection from Hand Gesture Dataset

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Abstract: The idea of sign language detection by technology is underutilized, despite the fact that a sizable social group could benefit from it. Few technological advancements can help this social group connect to the rest of the world. One of the most crucial elements in enabling sign language users to interact with the rest of society is understanding sign language. This study suggests using powerful artificial intelligence technology known as convolutional neural networks to understand gestures in Indian sign language (CNN). Three alternative sample sizes, each with a different number of persons and viewing angles, are used in CNN training. The trained CNN is evaluated using the final two samples. Different CNN architectures were developed and tested using our selfie sign language to increase recognition accuracy. The proposed methodology’s efficiency in detecting sign language is demonstrated by experimental data.

Keywords: Hand Gesture

REFERENCES