Sign Language Recognition

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Abstract: *Communication barriers between the hearing-impaired community and the hearing population can hinder social integration and access to essential services. This project aims to bridge that gap by developing a Sign Language to Text Converter that translates hand gestures into readable text in real-time. Utilizing computer vision and machine learning techniques, the system captures hand movements through a camera, processes the gestures using trained models, and converts them into corresponding text output. The converter is designed to support commonly used signs from American Sign Language (ASL), ensuring a more inclusive and accessible communication platform. With potential applications in education, customer service, and daily interactions, this tool enhances accessibility and promotes greater inclusivity for the deaf and hard-of-hearing community.*

Keywords: Communication barriers