

A LITERATURE REVIEW ON INDIAN SIGN LANGUAGE RECOGNITION

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Sign language is a fully visual language with its own grammar that is used by individuals with speech and hearing impairments. However, they often struggle to express their feelings to others unfamiliar with the language. Due to differences in vocabulary and grammar, methods used for recognizing other international sign languages cannot be completely adopted for Indian Sign Language (ISL) Recognition. Additionally, the lack of a large and complete dataset for ISL makes it difficult to handle sign language recognition and translation. In this literature review, we explore various deep learning techniques suitable for effectively recognizing ISL gestures from both images and videos. Additionally, we have looked into approaches for translating the recognized signs into English text, allowing their practical utilization. Our focus on ISL emphasizes the importance of addressing the unique dataset and linguistic challenges specific to ISL.