



Informatics Institute of Technology

In Collaboration With

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Sri Lankan Sign Language to Tamil Audio

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Abstract

The Sri Lankan Sign Language to Tamil Audio Translation System is a groundbreaking project that aims to bridge the communication gap between the deaf community and the general population. This project focuses on the development of a robust and user-friendly system that can efficiently recognize and translate Sri Lankan Sign Language (SLSL) gestures into Tamil audio. Utilizing advanced computer vision and machine learning techniques, the system is capable of accurately identifying a wide range of SLSL gestures in real-time. By leveraging deep learning algorithms and natural language processing, the translation from sign language to Tamil audio is seamless, enabling smooth communication between the deaf community and Tamil speakers. Sri Lankan Sign Language to Tamil Audio Translation System is a novel and valuable contribution to the field of sign language recognition and translation, offering new possibilities for effective communication between the deaf community and the general population.

Keywords: Sri Lankan Sign Language (SLSL), Machine Learning (ML), Support Vector Machines (SVM)