



# **Classifying Sinhala Sign Language to Text Using Transfer Learning**

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## **Declaration**

I declare that the work presented in this dissertation is my own work and to the best of my knowledge acknowledgement is made for all sources of information used in this dissertation. Further, this as a whole or as parts has not been submitted previously or concurrently for a degree or any other qualifications at any University or Institutions of Higher Learning.

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## **Abstract**

Effective communication is essential for human beings to solve problems and address issues. Language is a crucial component of communication, and for people with hearing or speech

impairments, sign language serves as a primary mode of communication. However, there is a lack of fully functional sign language recognition systems for minority languages such as Sri Lankan Sinhala sign language.

This research proposes a real-time Sinhala sign language recognition system that applies transfer learning techniques. Transfer learning involves reusing a pre-trained model on a different dataset to improve system performance.

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