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In Collaboration with

UNIVERSITY OF WESTMINSTER

Dynamic Sign Language to Text

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Submitted in partial fulfilment of the requirements for the BEng in Software
Engineering degree at the University of Westminster.

May 2022

ABSTRACT

Sign language is a medium the hearing and speech impaired use as a communication method to communicate between them and the public. Like normal people use vocal language to communicate the hearing or speech impaired use the sign language to communicate. Sing language also has different languages across the world as to how normal people have different languages. The author of this project takes into consideration of the Sinhala sign language as language medium in this project.

The aim of this project is to be able to create a system that can translate the Sinhala sign language into readable text. Which would contribute in closing the gap that the hearing- impaired face when trying to communicate with the normal people, as most of them do not understand the sign language. This project focuses on translating dynamic signs into text using neural networks and deep learning algorithms. This project focuses on the use of LSTM neural networks.

Keywords: Dynamic sign language, Sign language translation, Neural networks, LSTM neural network, Machine learning, Computer vision.