Real Time Translation of Malayalam Notice Boards to English Directions

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Abstract

Neural Machine Translation (NMT) is an emerging technique depicting impressive performance, better than traditional machine translation methods. It is observed that NMT models have a strong efficacy to learn language constructs, improving performance. Considered as one of the toughest Indian languages to learn and comprehend, Malayalam is extensively used in Road Signs and Notice Boards in Kerala as it increasingly becomes India’s tourism hub. In this paper, the barrier faced by the tourists is resolved by providing real-time translation to English. The results obtained show that accuracy can be improved by incorporating Deep Learning and Natural Language Processing (NLP) in translation. This paper is envisioned to not only convert notice boards but also translate Malayalam that is written and printed on all mediums.

References


Index Terms

Computer Science

Information Sciences
Keywords

Binarization, Grayscale, NLP unit, Translation unit, OpenCV