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Malay lexical simplification model for non-native speaker

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Abstract:
Vocabulary is an important language skill that can affect a person's understanding of a sentence. Thus, lexical simplification is the task of converting difficult words into simpler words. It is to make it easier for the reader to understand the sentences. The biggest challenge in lexical simplification is to simplify the words needed without changing the meaning of the sentence. Past studies have shown that there are weaknesses in this task, where simple words are also identified as complex words. This issue has led to the simplification of unnecessary words. The purpose of the study is to produce a complex word identification model for the Malay language into words that are more easily understood by nonnative speakers. Experiments was performed on the appropriate features to obtain the required results. Machine learning was used to ensure the results were more accurate. This study is a novelty in text simplification of the Malay language in the field of Natural Language Processing (NLP) and may be used as a preprocessing tool to improve other tasks in NLP.

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I. Introduction

Text simplification (TS) is one of the directions in Natural Language Processing (NLP). According to [1], TS can be defined as a problem in machine translation and natural language generation. Both machine translation and natural language processing are parts of the NLP field. TS is related to the text summarization, which is one of the research area. The purpose of text summarization is to summarize the sentence by eliminating the details and keeping the important issues [2]. Meanwhile, the goal of TS is to rewrite the complex texts into more straightforward language that is easier to understand and retains sentence meaning [3].

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