
Abstract

In this digital era, the quality of news article writing is crucial for maintaining the integrity and credibility of information. However, errors such as spelling and grammar mistakes frequently occur, which can reduce the quality of news articles and affect readers' comprehension. These errors indicate a need for effective methods to detect and correct such mistakes.

This study aims to improve news article quality by implementing text correction technology using the IndoBERT language model. Three methods are applied: pretrained error detection, finetuned error detection, and dictionary-based error detection. The dataset consists of 200 Indonesian-language news articles, totaling 55,356 words and covering various news categories.

The results show that dictionary-based error detection achieved 89% Overall Accuracy, effectively identifying and correcting simple spelling mistakes. Meanwhile, the IndoBERT model, finetuned with the news dataset, improved accuracy to 46% compared to the pretrained model and performed better in addressing more complex contextual errors.

This research demonstrates a significant improvement in news article quality using language model-based text correction technology. Errors can be reduced, making articles more accurate and understandable. These findings are also expected to contribute to the development of automatic text correction technology in Indonesia.

Keywords: text correction, spelling errors, news articles, language model
