ABSTRACT

Analysis of Public Sentiment towards Sinovac Vaccination on Twitter with Long Short Term Memory Algorithm

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Coronavirus Disease-2019 (COVID-19) is a virus that attacks the respiratory system and has caused various problems in education, employment, health, economy, and others. The Indonesian government has taken various steps, such as 3M education, social restrictions, and vaccination programmes to prevent the spread of this virus. One of the vaccines introduced is Sinovac, which has become the talk of the town. The problem raised is what are the stages in conducting sentiment analysis on Indonesian Twitter posts on Sinovac vaccination and what is the accuracy level of the Long Short Term Memory algorithm used. The purpose of this research is to conduct sentiment analysis on Indonesian people's Twitter posts on Sinovac vaccination and determine the accuracy level of the algorithm. This research was conducted using qualitative methods. From the dataset that has been collected, it produces 535 Neutral sentiments, 231 Tender sentiments, 147 Happy sentiments, 98 Sad sentiments, 58 Scared sentiments, 17 Excited sentiments, 15 Angry sentiments, and an accuracy of 95%. From these results, it can be concluded that the public sentiment towards Sinovac vaccination is Neutral, where people do not take sides or there is no strong sentiment in the response. This means that people do not have sufficient knowledge or understanding and do not have a strong interest in Sinovac vaccination. And the accuracy of the algorithm for sentiment analysis in this study is good.

Keywords: *Sentiment Analysis, Vaccination, Sinovac, Long Short Term Memory*.

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