

Analisa Sentimen pada Opini tentang Vaksin Covid-19 di Twitter menggunakan Convolutional Neural Network dan Word2Vec Embeddings

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Abstract

Twitter provides a great platform for sharing opinions and see trending topics. Public opinion is widely used to understand how sentiment to certain topic, product, or a person. One of the current trending topics is about Covid-19 Vaccine. There are many pros and cons from the public against the Covid-19 Vaccine, therefore sentiment analysis related to this topic is very appropriate to study to find people's opinions about the Covid-19 Vaccine from certain tweets, is the result positive, neutral or negative. We hope the results can help any community or any organizations. This study used Convolutional Neural Network method as classification and Word2Vec as word embeddings. In previous studies with this method, They did not focus on hyperparameters on CNN model hence the prediction accuracy results were not optimal, therefore, this research will apply hyperparameter tuning to get the best results. Hyperparameter tuning aims to select an optimal set of hyperparameters for the learning algorithm. We used the dataset from social media twitter unlike the previous study. The results obtained in this study showed good results which accuracy value of 94%.

Keywords : *Sentiment Analysis, Covid-19 Vaccine, CNN, Word2Vec.*

