ABSTRACT

Advances in information technology in the midst of Indonesian society have given rise to the phenomenon of the spread of hate speech that targets a group or individual. Twitter is one of the places where hate speech spreads the most. This is because the number of Twitter users is massive, and the dissemination of information only takes a matter of seconds. The spread of speech information will easily become widespread, so that it can cause the group or person who is the target of the hate speech to become depressed. Based on this phenomenon, a system is needed that can detect hate speech on Twitter social media.

Based on the problem of the massive hate speech phenomenon spreading on Twitter social media, a hate speech detection system was created on Twitter using the Long Short-Term Memory (LSTM) algorithm with the addition of Indonesian Part Of Speech (POS) parameters in the feature extraction process. This system is based on a website application and works to detect tweets in the form of sentences on Twitter, including hate speech or non-hate speech.

Based on the results of the research in this final project, the hate speech detection system on Twitter social media based on the website can run, and the best model is obtained using a combination of hyperparameter batch size of 32, learning rate of 0.001, epoch of 50 and training data of 90% and test data by 10%. The maximum accuracy value is 78%, the precision value is 78%, the recall value is 78%, and the F1 score is 78%.

Keywords: *Hate Speech, Long Short-Term Memory Algorithm, Part Of Speech, Twitter*