

Abstract

Emotions are things that cannot be separated from everyday life, including when someone is interacting on social media, one of which is Twitter. Classifying tweets about emotions is an interesting thing to study, because someone when communicating on social media is certainly not separated from the emotions of that person. Text Mining is an information extraction process that aims to get the true meaning of a text data. K-Nearest Neighbor is one method of text classification, the method has good accuracy in classification, using an approach based on the distance between the data that is owned by K-Nearest Neighbor, which in the weighting of the text will use the TF-IDF, the classification of texts in emotional cases can work well. In this study applying several testing schemes, the test scheme found the best accuracy results in the K-Fold k=10 testing scheme using preprocessing stemming that is equal to 74.33%, which is where the K neighbor value is obtained = 281, with average precision 76.38%, recall 74.15%, and F1-Score 73.4%.

Keywords: *Text Mining, K-Nearest Neighbor, Classification, Emotion*