

## Abstract

Twitter is a social media which is very often visited in the world, including the people of Indonesia. Indonesia is ranked 3rd most users in the world. For the people of Indonesia, Twitter is not only a means of communication but also a place to express emotions and describe a person's character in everyday life. In contrast to direct communication where emotions are very easily identified by looking at the someone's facial expressions, while indirect communication such as on Twitter need to analysis of the tweets sent. This makes Twitter an object in this final assignment research which aims to assist in determining a person's emotions on twitter by classifying tweets written into the four types of emotion proposed by Paul Ekman that is anger, *fear*, *joy*, *dan* sadness. The method used in this final project is multinomial naïve bayes. The method used a multinomial model on conditional probabilities by calculating values for each word. The results of this study are the multinomial naïve Bayes models using the slang handling and negation convert in the preprocessing process, and using laplacian smoothing in the posterior probability calculation process produces an accuracy of 90.2%.

**Keywords:** *Tweet, Emotion, Classification, Multinomial Naïve Bayes*