

## ***ABSTRACT***

Nowadays social media has become a new part of life in modern society. Twitter is one of the most popular social media. The character limit when tweeting on Twitter makes the message conveyed by the user very concise. Twitter users tend to express their feelings through tweets. However, uploading tweets can not necessarily be used as a real reference whether uploading tweets is in accordance with his feelings.

The classification method used to provide class labels in this study is the Naïve Bayes method. The Naïve Bayes method is a classification method based on probability values and is easy to implement on tweets in the form of text. Thus, the depression element detection system in tweets with the Naïve Bayes Method can detect a tweet post containing depression elements or not with an accuracy value of 74% in data ratio, and 73% in validation testing.

Keyword : Twitter, *tweet*, *Machine Learning*, Depression, *Naïve Bayes*.