Abstract

Social media is a source of information and communication media has enormous popularity among all services today. Twitter is a social media that is usually used by users to express themselves. Not infrequently Twitter users express their feelings through tweets, so we can find information about feelings to the user's level of depression. This study was conducted to analyze sentiment to measure the level of depression of Twitter users using deep learning algorithm with *Convolutional Neural Network (CNN)* model. Based on the analysis, implementation, and evaluation of the CNN model using the confusion matrix, it produces classification performance with an accuracy value of 82.90%.