Abstract

Social media can be a forum for the dissemination of opinions, news and hoaxes, one of which is Twitter. Twitter is a social media that is used by many people and is popular in the world. Hoax is a negative thing that happens on twitter. This study aims to build a hoax news detection system and see how the performance and accuracy of Convolutional Neural Network (CNN) classification using the term frequency-inverse document frequency (TF-IDF), a combination of Ngram and Information Gain. The results obtained in this study indicate that the implemented model is quite good which has an fi-score of 89.49%

Keywords: hoax, social media, twitter, TF-IDF, CNN.