

Abstract

The problem of flooding causes many losses, not only material but also psychological. Flood problems can also be seen in the complaints of social media users, one of which is Twitter. Complaints submitted by Twitter users can be used to find out the emotions of Twitter users. By analyzing the emotions of Twitter users, it can be concluded what Twitter users feel about flooding. The research data taken is Indonesian tweets and divided into five emotion groups, namely: Happy, sad, angry, love and fear. The tweets will then be cleaned of words, numbers, and unimportant information. The set of words that have been cleaned will be converted into a vector using fasttext embeddings and become the input for Multilayer Perceptron Neural Network training. The training output will be retrained using GridSearchCV to get the best accuracy, which is 86.98%. Although the accuracy value obtained is high, it cannot be used as a benchmark that the model that has been built can determine the emotions of Twitter users.

Keywords: MLPNN, classification, flood, tweet, hyperparameter.