Abstract

In 2018 until mid-2019 there were many discussions about the problem of Indonesian football which led to public disappointment with the football association of Indonesia (PSSI) but at the end of 2019 PSSI proved its performance and gained achievements, with these conditions it is certain that many opinions about PSSI will vary on social media. From the many opinions, it will become data that can determine public satisfaction with PSSI's performance whether the results tend to be positive or negative by conducting sentiment analysis. To support the sentiment analysis, a classification algorithm is needed. The algorithm in this study uses a Decision Tree and a Support Vector Machine. The results of the best data composition for testing are 80%: 20% by getting an accuracy value of 87.45%, 87.72% precison, 91.74% recall and 89.69% F1-Score on the Decision Tree with TF-IDF while for Support Vector Machine with TF-IDF The best data composition is 80%: 20% get an accuracy value of 94.36% accuracy, 96.78% precison, 94.30% recall and 95.53% F1-score. So in this case the sentiment analysis on instagram comments would be better if you use the Support Vector Machine (SVM) with TF-IDF.

Keywords: decision tree, support vector machine, PSSI, term weighting