

ABSTRACT

Rasulullah PBUH once said that one of the best acts of worship that his people can do is read the Koran. At this time, it's easier for Muslims to read the Al-Qur'an because the Al-Qur'an is available in digital form such as applications on smartphones. One of the most widely used applications is Al-Qur'an Indonesia. The number of users is directly proportional to the number of reviews given on the Google Play Store. As an application that plays a role in supporting the Muslim worship process, the performance and quality of Al-Qur'an Indonesia application needs to be considered. Reviews provided by users are important to analyze to obtain information from the reviews provided by users. With so many reviews available, sentiment analysis is a relevant solution that can be used to determine user tendencies towards applications. In this research, sentiment analysis will be carried out using the Naïve Bayes Classifier and Convolutional Neural Network with the aim of finding out the performance of these two methods in the sentiment analysis process in reviewing Al-Qur'an Indonesia application. The research results show that the performance of the Naïve Bayes Classifier classification method produces 76,83%, precision 85,40%, recall 76,83% and f1-score 79,90%. Meanwhile, the Convolutional Neural Network method obtained an accuracy value of 93,89%, precision 93,70%, recall 93,89% and f1-score 93,75%. These results show that the performance of the Convolutional Neural Network classification method is superior to the Naïve Bayes Classifier method in sentiment analysis of reviews of the Al-Qur'an Indonesia application.

Keywords: *sentiment analysis, alquran indonesia, naïve bayes classifier, convolutional neural network*