

## Abstract

The social media that is currently developing is Twitter. Twitter is a social media that contains information such as a person biography, information, tweets or tweets from users. Information obtained from Twitter can be used to predict a *trending topic*. This research discusses comparison of the weighting methods used in a trending topic, that is TF-RF and TF-IDF to give a weight to the term contained in a document. and using the classification method of data mining where the method used is the *K-Nearest Neighbor* classification method. The results of the study are based on news and conversations taken from Twitter. Accuracy of *K-Nearest Neighbor* the best value using  $K = 1$  with the distribution of training data and testing data (90:10) weighting TF-IDF is 63,10% with *precision* 0.633 and *recall* 0.633 while TF-RF is 62,48% with *precision* 0.623 and *recall* 0.623.