

Abstract

Twitter active users create so many data. Those data have potential informations which can be obtained, one of them is the information about Twitter user favorite chat topics. This research classify data to get that information, and use it to recommend news from many sources. The result is useful for mass media who want to recommend their news to Twitter users. The classification system for this research is build using artificial neural network which is trained using backpropagation algorithm. Then, this research creates news recommendation application for Twitter user using CodeIgniter framework, and PHP programming language. Backpropagation utilization is resulting the best test accuracy at 82,4324% when the train accuracy achieve 94,6341%. This accuracy is obtained using backpropagation with learning rate value at 0.5 and momentum value at 0.25. But, according to 32 Twitter users, 9% think the news which recommended by the application is very accurate, 66% accurate, 16% indifferent, 6% not accurate., and 3% is not very accurate.

Keywords: Data Mining, backpropagation, Twitter.