

## Abstract

Hoax news or information can be defined by deliberate fake news, inflammatory news, or inaccurate news. One of the motives of this hoax news or information can bring down politics and can have a bad impact such as reputation reputation. So that the system for handling hoaxes can help to reduce or even eliminate the spread. This study develops a hoax detection system using a Support Vector Machine (SVM) algorithm and a feature selection Chi-Square. The algorithm chosen by SVM is because it can handle the size of the dimensional data in the text and with the added feature of options that can reduce the dimensions of data that do not reduce the level of accuracy obtained. The results of this study get the highest accuracy of 83.28% on the dataset which is translated into English using the Chi-Square selection feature with features of 91% of the total.

Keywords: Support Vector Machine, Feature Selection, Chi-Square