ABSTRACT

Progress of information technologies provide convenience to the public in getting any information on various media especially online media and information obtained is generally in the form of text data. The growth of text data that is increasingly rapidly pushing various research that aims to process and organize the text data. One of the many research done is text classification. However, text classification research is still fairly rarely applied to process data of text book of religion such as Hadith. In addition to being published at this time, data collection of Hadith can be easily obtained either from the internet as well as presented in the application but is not accompanied by the meaning of the information. So, for the lay community or even Muslims who are studying Hadith will have difficulty in understanding the meaning of the hadith that considering the amount of data a considerable amount. Thus, the processing of data of this Hadith text needs to be done, as in the Hadith there are various guidelines that are beneficial to the community in particular the Muslims in behaving in accordance with the sunnah of the Prophet sallallaahu ' Alaihi Wasallam. Based on these problems, in this final Task researchers provide the solution by doing text classification automatically against one of the best Hadith i.e. Hadith Sahih Bukhari Indonesian Language translation into the category of Advice, Information, and a ban on using the method of Support Vector Machine approach to multiclass classification. The average of SVM classifier test results expressed with F-1 score of 5-fold cross-validation is 88% for the three kernels used are linear, polynomial, and RBF.

Keyword *: Text Classification, multiclass classification*, Hadits Shahih Bukhari, *Support Vector Machine*.