***Software Development for Comparison of Accuracy and Time on Lexicon Based Features Method, and Ensemble Feature for Feature Extraction for Sentiment Analysis Applications Brainly***

*Supervised by* Moh. Munih Dian Widianta, S.Kom, M.T

**Maulana Alirridlo**

*Study Program of Informatics Engineering*

*Majoring in Information Technology*

# ABSTRACT

*Current technological developments give rise to various types of applications that are useful to assist students in learning, one of these applications is Brainly. Brainly users usually give their opinion about Brainly on Twitter. Several researchers have used research materials from Twitter to analyze sentiments such as the research conducted by Rofiqoh et al. (2017). In this study, there were several stages carried out in sentiment analysis, namely entering datasets, preprocessing, word weighting (TF-IDF), word weighting Lexicon Based Features, classification with SVM. The results of his research found a problem, namely the accuracy of the use of word weighting with Lexicon Based Features was lower than that of sentiment analysis that did not use Lexicon Based Features. In the process of studying the literature conducted by the author, the author found other feature extraction methods such as Ensemble Features which can replace the Lexicon Based Features method for feature extraction. So the authors took the initiative to evaluate the Lexicon Based Features, and Ensemble Feature methods for feature extraction of the Brainly Application sentiment analysis based on accuracy and time.*

***Key words**: algorithm comparison, accuracy, feature extraction*