

Abstract

***Twitter* user makes almost 500 million post everyday about the state of their environment. The information from *twitter* users can be useful information to monitoring events or incident, for example natural disasters, some traffic accident, and pandemic. However, the language of tweet where usually informal, and the various types of user accounts with special needed, for example news and business account, makes personal observations is difficult to obtain. This research is aiming to propose a personal observation filtering method with unsupervised learning method. The method is consisted of lexical analysis to obtain personal observation and user profiling. The result of this study are tweets which are personal observation from *twitter* user about an event or accident. This study was conducted using python and rstudio. The application of lexical analysis and user profiling in this study succeeds to monitoring event in *twitter* moreconvenient.**