Abstract

Social media is a communication medium for users to be able to interact and share information online. The most popular social media used is Twitter. Topics that are often sought are information about scholarships. But the information disseminated by users has various formats. This is where the role of Information Extraction (IE) is needed in order to convert unstructured text into structured information. One method to complete this task is to use Maximum Entropy Markov Models (MEMM). This method is used because it can combine the text context on the information characteristics and information characteristics contained in a text into a Markov model so that it can improve IE performance. The purpose of this research is to extract scholarship information on Twitter by implementing the MEMM method. The research was conducted by pre-processing and POS Tagging and classifying using a trained model. Accuracy, precision, recall and f1-score values are used to evaluate the MEMM method. The best model from this study produces performance with 86,10% accuracy, 85,27% precision, 86,10% recall and 83,15% f1-score.

Keywords: scholarship, twitter, information extraction, maximum entropy markov models