**ABSTRACT** 

Today social media is getting attention for the world community, especially

Indonesia. It can be used as a media to analyze the sentiments of a cellular card

product. Many people assume someone's suggestion could be one factor in

choosing the mobile card. Therefore analyzing one's opinion on a cellular card

product can be a way out of it. The sentimental analysis itself is part of the Natural

Language Processing (NLP) study, there are several methods for analyzing an

erroneous sentiment using the Maximum Entropy method with the help of TF-IDF

which is thought to be an accurate result.

The data used in this research is the tweet of someone's opinion, taken by

crawling using R programming language, as many as 30,000 (thirty thousand)

records with 15 attributes supporters. The keywords of searching tweet into three

main categories namely telkomsel, xl axiata and also indosat ooredoo.

The best system combination which in this case, by using TF-IDF value to

representation weight of each word and using selected feature-set adjective,

adverb, verb, noun and conjuction, with this combination, model can reach 79.71%

of accuracy and for the training process can reach 90.67%.

Keywords: Twitter, TF-IDF, ISP, NLP, Maximum Entropy, Bahasa.

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