KT project2 Peer-Reviewing:

Summary:

The report chose to use Naïve Bayes and J48 decision tree two classifiers for classifying a large amount of tweets into different sentiment classes. Author did some research and added a new “Engagement” feature into the system. Then, combined these new features with the original 46 features and use some metric----- precision and recall, in terms of multiple tables, to compare this new system with the original one. Also, gave some discussions, evaluations and assumptions with the statistical results.

Advantages:

There are many things the author did pretty well as below:

1. The features added or suggested is really novel----“It is less likely a neutral tweet is going to be retweet.” and “specifically learn users’ habit for better understand sentiment”.
2. Author gave some explanation for why original 46 features performed not that well and explained the reason why new feature can improve the result, which is reasonable and convincing.
3. There are many thought from author’s analysis and conclusion that are really attractive and worth us thinking.

Weak points

1. It’s better to cite some reference in the “Background” section, which will more convincing.
2. Just add reference but not cite them in the report. And for feature engineering part, “From a research of twitter, different characters length of tweet has been collected and determine how many tweets are retweeted….”. It is better to explain more about this research. It is a very interesting topic and reader might really want to research more with this idea but can’t find any resource support this idea in the report.
3. Precision and Recall are for specific sentiment class, such as positive. Author tried to use precision and recall for evaluation which are not appropriate metrics to use.
4. Author just said “The result from decision tree is significantly better than Naïve Bayer….”, but without any explanations or assumptions why J48 performs better than Naïve Bayes in this case.
5. Table.10 ‘s position is weird.