1. Cross validation Accuracy for each experiment?
2. Classifiers used and Why?

J48, SVM, Naïve Bayes

1. Which were the fastest? Most Accurate? Easiest to use?

Baive baiyes was the fastes

SVM Smo was most accurate

Naïve Bayes and J48 were easier to use as they had less parameters.

1. Which do you prefer and Why?

I preferred SMO because it was giving better results wrt Accuracy.

1. Which classification task was easiest and hardest and why?

The classification of reviewers was easiest using the bow features because almost all of the reviewers were using some set of words very often across all of their reviews.

The classification into star rating was hardest because the classes were very similar and the adjacent classes differ only by a small set of features and decision in the real world is also very subjective. Like classes 2 and 3 – both have some good points and some bad points. It’s very subjective to rate it 2 or 3.

1. Within task were some classes easier to classify then others? Why?

Yes within a task such as the star rating it was easier to classify 4 star or 1 star them to classify 2 star or 3 star. The reason I same they differ only by a small set of features and decision in the real world is also very subjective. Like classes 2 and 3 – both have some good points and some bad points. It’s very subjective to rate it 2 or 3.

1. Which classifications were most similar and most different and why??

The star rating and Positive/Negative classification were similar because both are trying to identify the sentiment of the text.

1. What features did you use and why?

I used some set of bag of words features and some other features such as no of positive words, doc length, no of negative words. etc.

1. Did they perform better or worst then expected?

Some of them performed better but some didn’t such count of NN words from the text.

1. Did early experiments guide your thinking for your final submission? How?
2. Which features were most/least helpful? Why?
3. If you used any external resources which did you use? How did they contribute to the success of your submission?

I used Porter Stemmer – It wasn’t helpful. It reduced the accuracy.

I used Stanford parse it wasn’t helpful. It didn’t increase the accuracy but took a lot of time to process.

I used list of positive and negative words. It was very useful.