Team Name: Opinion Dominion

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Data: The data set can be found at https://alt.qcri.org/semeval2016/task5/index.php?id=data-and-tools I plan to use the english versions of the datasets.

Task: I plan to work on opinion target-aspect-sentiment extraction. The data set includes sentences with aspect categories (entity and attribute tuples), opinion polarities (sentiment analysis indicating a positive/negative/neutral opinion), and opinion target expressions (OTEs are the explicit mentions to the reviewed entity of the entity and attribute tuple). This task involves extracting out the OTE directly from the sentence and assigning an aspect category and opinion polarity. This task can be solved by finding one of these pieces at a time and using what has been found to find the other pieces. It has also been proposed that it could be beneficial to find all three pieces of information simultaneously. I would like to try both ideas to see if I can generate a conclusion on whether or not finding all three simultaneously increases accuracy. My system will need to output the opinion target, aspect category, and sentiment polarity. This output can then be compared to the gold standard provided in the data. It is also important to note that a sentence can have multiple opinion targets and the system should be able to generate each of the other pieces of information for each target as well as pull out the separate targets themselves.

Evaluation: The datasets that will be used for evaluation are clearly separated and specific on the dataset webpage. I plan to use accuracy, recall, precision, and f-score (all in percentages) as the evaluation metrics on my system. I will use the output of my system against the gold standard output to produce these evaluation metrics. I will generate these scores for each piece of information being extracted or classified as defined in the task. This way we can separate how the system performs when extracting OTEs, assigning aspect categories, and assigning opinion polarities separately. I am interested in seeing how the two different strategies to complete the task above compare, so I would like to generate result analysis for both strategies like I have described above. This way the evaluation metrics can speak to which strategy generates better results.