Automatic Summary Generation for Online Product Reviews

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1: Feature sets and classifiers

We tested our model with two different types of feature sets: One without the information about the NER tags and one with the NER tags.
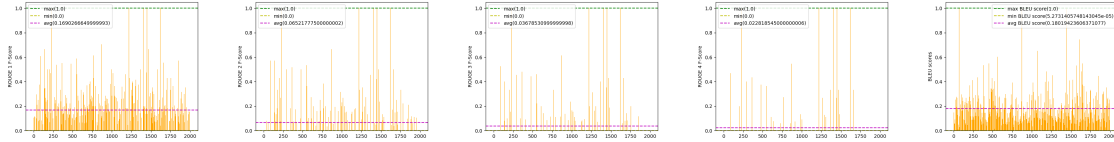
We also tested by adding POS tag and NER features for previous and next sentences but it did not affect the results. Hence we decided to not consider them.

We trained two classifiers (both balanced): SVM and Logistic Regression. All the results (except ROUGE-1 Recall) are better than text rank approach.
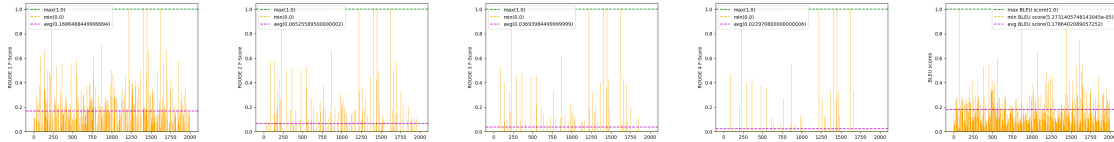
2: Results

We evaluated our system using ROUGE-1, ROUGE-2, ROUGE-3, ROUGE-4 and BLEU. But we're including plots for ROUGE-n F-Scores and BLEU. (We will include the precision and recall plots in the final report)
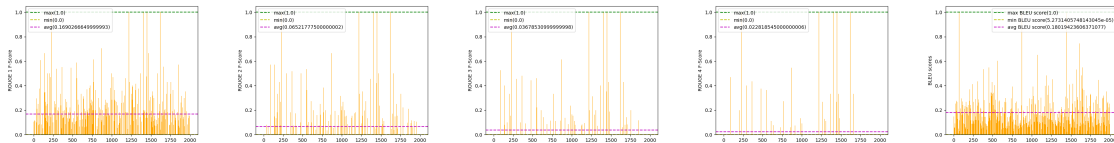
1. SVM without NER tags

2. LR without NER tags

3. SVM with NER tags

4. LR with NER tags