

Project Progress Report

Text Classification Competition: Twitter Sarcasm Detection

Ryo Takaki

1. Progress made thus far

1.1 Project outline:

The goal of this project is to classify tweets into two labels("SARCASM" and "NOT_SARCASM"). A performance of the classified label will be evaluated by using F1 score, and will be compared to a baseline performance generated by a state-of-the-art model.

1.2 Progress:

I decided to use a BERT(Bidirectional Encoder Representations from Transformers) which is known to have a good performance with text classification problems. Fortunately, an implementation of the BERT model was easy and a performance for our task(twitter sarcasm detection) was good enough to beat the baseline. Specifically, although it was the first try to train the model, the F1 score was 0.744 (Baseline: 0.723).

2. Remaining tasks

2.1 Model update:

As I have already outperformed the baseline performance, additional parameters tuning for the model training is not necessary.

2.2 Presentation preparation:

For the final presentation, remaining tasks below will be done.

- Add comments to the code
- Make a project presentation video

3. Any challenges/issues being faced

Currently, I do not have any issues. Therefore, no additional support is needed.