

Division of work

We started by collecting a number of papers that we thought might be useful, and divide them equally for each of us to read and present to one another. We also always gathered and brainstormed to come up with the ideas to tackle the problem. This means that we developed the feature set and the idea for the two-pass model together. It is impossible and possibly unfair to draw a line on who developed which ideas.

In terms of implementation, Varot took charge of setting up the work environment--deciding how the code will be structured and which external packages may be needed. He wrote part of feature extraction, mostly the emotion information features using NRC Emotion Lexicon. He also experimented on machine learning libraries and experimented with different configurations of the SVM and neural-network-based models. For Laphonchai and Navi, they did pair programming, so they shared all the implementation work. Their main work was on feature extraction including crafting Degree Word Dictionary, extracting degree words, word metadata, sentence metadata, and selection of feature set. Apart from feature extraction, they wrote part of model in baselines and decision tree. In addition, they implemented beam search on the output tags probability to improve accuracy; however, the result did not actually improve due to highly data imbalance on tag neutral.

All of us worked on the presentation and the paper together.