

COL772: Project Proposal

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1 Goal

Our aim is to create a model that can learn to generate reply for tweets. Further, we would also experiment with other domains like email and dialogues.

2 Dataset

3 Literature

Recently, google released a paper “Smart Reply”[1], which is their model for email auto responder. Apart from this, there are various papers on text summarization[2] where we plan to take inspiration from.

We have not found a paper that exactly does twitter replies and thus we would be writing code from scratch.

4 Evaluation

For quantitative evaluation, we are currently planning on using the perplexity as our loss measure. The gold labels, would be a held out test data from the whole dataset. We would also be reporting the BLEU, METEOR and ROGUE metric of our predictions.

For qualitative evaluation, we can just look at some randomly sampled results and judge their quality.

References

- [1] Anjuli Kannan, Karol Kurach, Sujith Ravi, Tobias Kaufmann, Andrew Tomkins, Balint Miklos, Greg Corrado, László Lukács, Marina Ganea, Peter Young, and Vivek Ramavajjala. Smart reply: Automated response suggestion for email. *CoRR*, abs/1606.04870, 2016.
- [2] Abigail See, Peter J. Liu, and Christopher D. Manning. Get to the point: Summarization with pointer-generator networks. *CoRR*, abs/1704.04368, 2017.