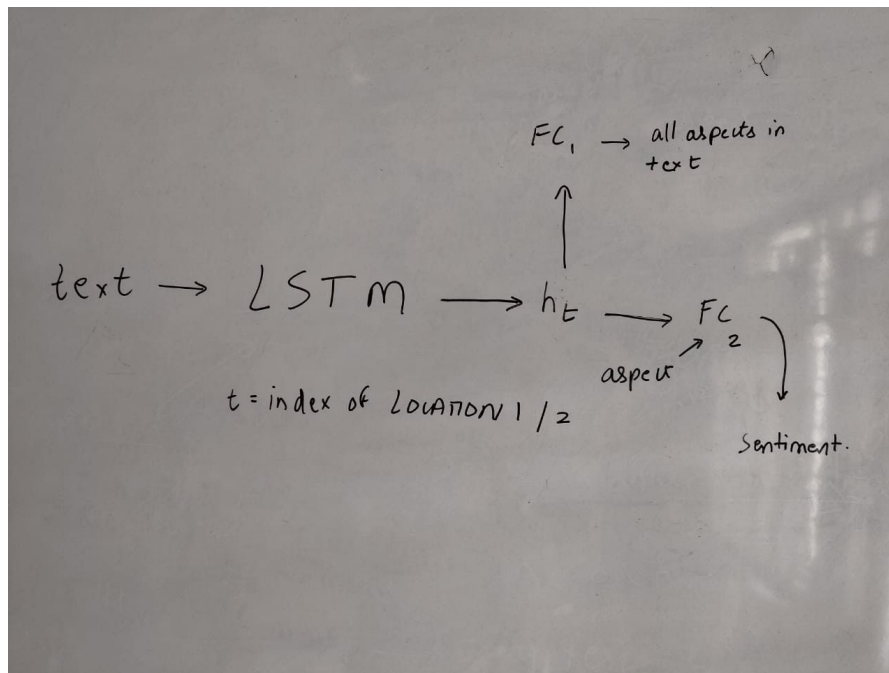


Model overview.



Similar to the baseline LSTM used in the Sentihood paper. Jointly minimizes sentiment and aspect.

Sentiment prediction is conditioned on an aspect present in the text.

Failure cases:

Model is too heavy (due to the pretrained BERT embeddings (dim 768)). I resorted to training just one epoch on the dev dataset.

Word2Vec or other types of pretrained embeddings should be fine too. Sent2Vec can make the model very lightweight.

Sentiment has a major class imbalance of "None".

Favourite Library:

I really like <https://github.com/maximecb/gym-minigrid> and <https://github.com/maximecb/gym-miniworld>.

They are two lightweight RL environment libraries. Code is written simple enough that I can easily modify it.

What I don't like is the headache to make it non-stochastic. The 80x60 state dimensions could also be changed. Code can be modified to collect trajectories better for Imitation Learning.