Quora Question Pairs

The State of That Poster Dimitris Michailidis, Ben Wilmers

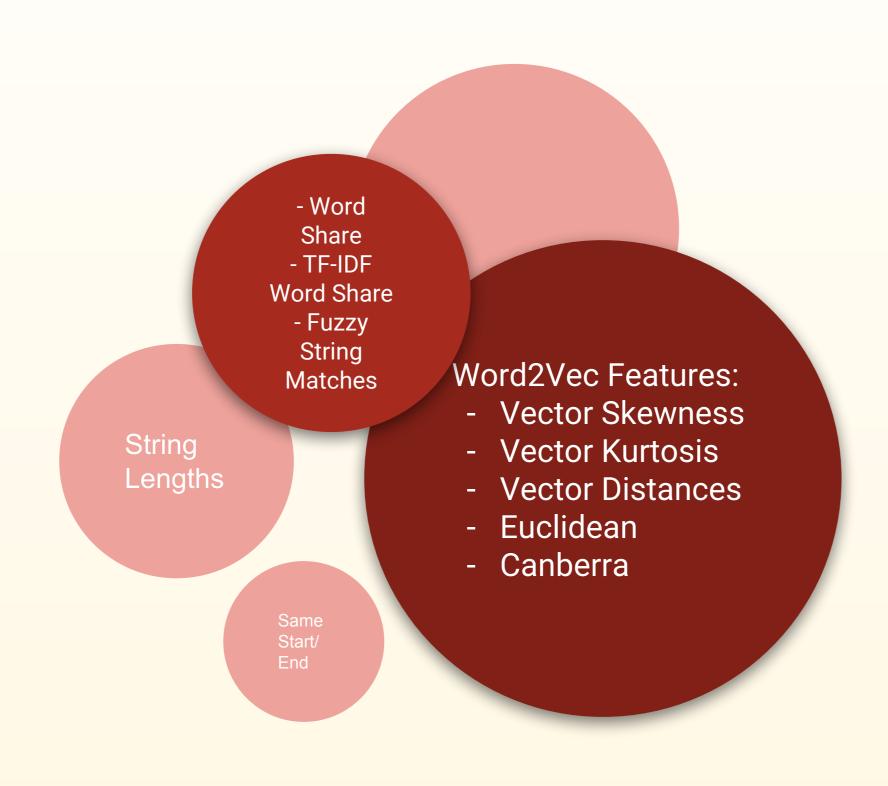


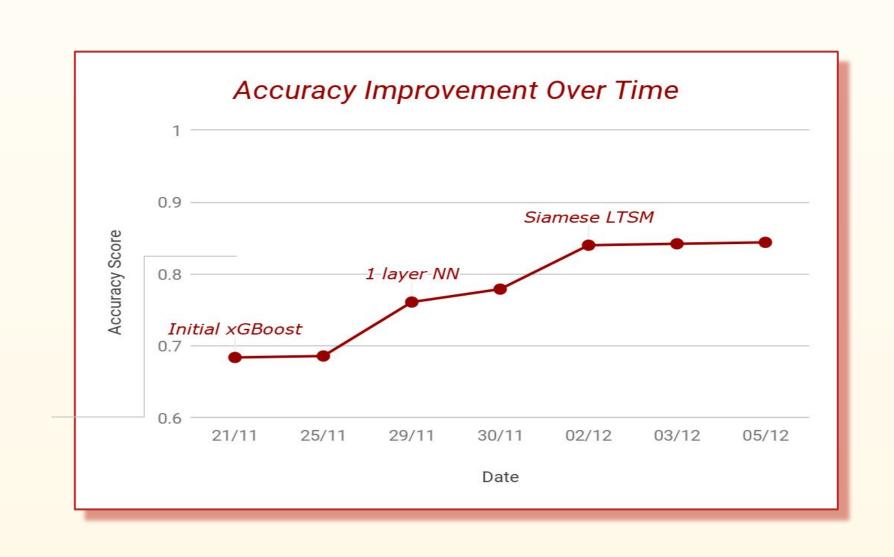
Problem Statement

Our goal was to build a model which could identify whether 2 questions on Quora were duplicates or not.

We oriented our approach around using Deep Learning methods.

Our final model is a combination of work done by [1], [2], [3].

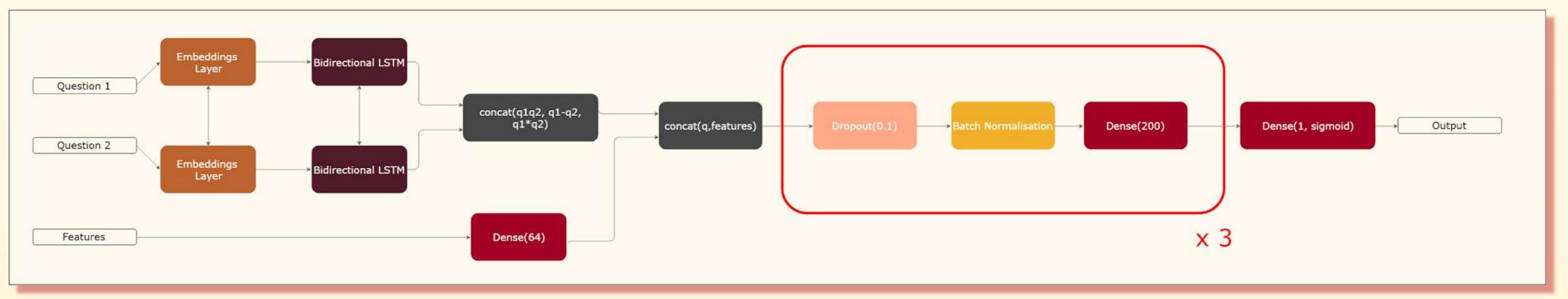




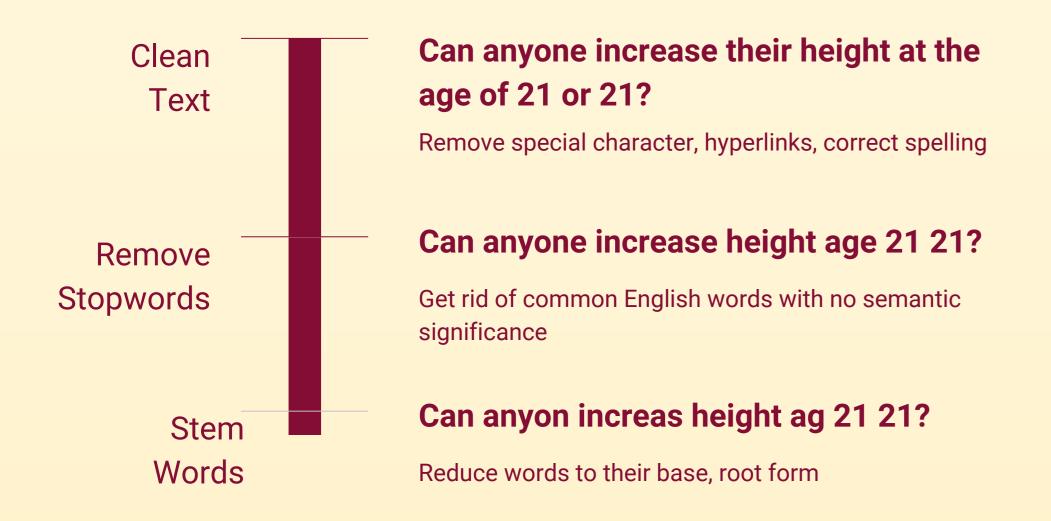
Summary

- → GloVe Embeddings [100, **300**]
- → Dropout rates [**0.1**, 0.2, 0.5]
- → Sequence Length [20, **25**]
- LSTM Units [256]
- → Features Dense [**64**, 100, 200]
- → Batch Size [128, **256**, 1080, 2048]
- → Fully Connected Layers [200]

Next: Try stacking different outputs together into a new model.



Text Cleaning



Final Model performance



Models we tried



^[1] Bowman, Samuel R., et al. "A fast unified model for parsing and sentence understanding." (2016)

^[2] Bowman, Samuel R., et al. "A large annotated corpus for learning natural language inference." (2015)

^[3] Addair, Travis. "Duplicate Question Pair Detection with Deep Learning."