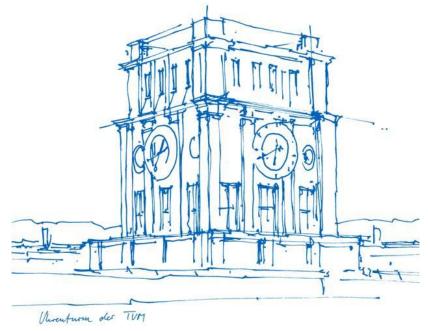


Comparing **Sentiment Analysis** of Discourse Units and Sentences

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Research Group Social Computing
Munich, 5. June 2019





Progress Report

Amazon Review Dataset (~ 450k reviews) → EDUs

Problems:

- extremely large → run it on external machine, parallelize it on 12 cores
- very RAM-heavy → sub-divide it into even smaller parts
- Multiprocessing failed → instead, run segmentation script multiple times in parallel



Progress Report

Existing code in Lua

- → Do not use Lua!
- → Implementation in Keras on Tensorflow

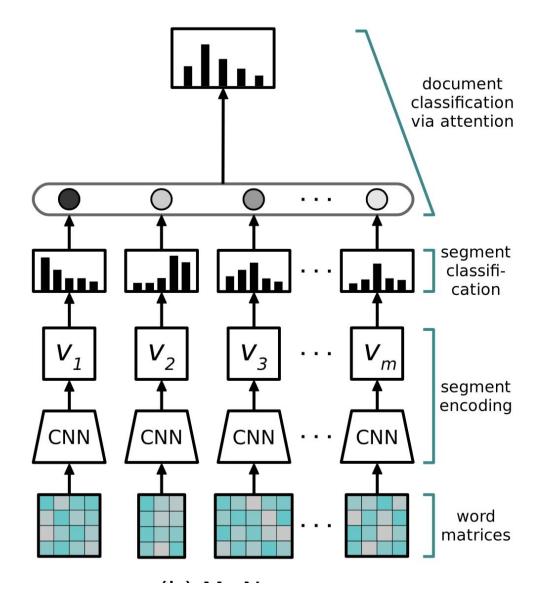
Setup on Desktop-Machine (GTX 1070) instead of Colab for development

- → Same speed, but easier to work with
 - Keeps state
 - Remote Interpreter in PyCharm → easy debugging, ...

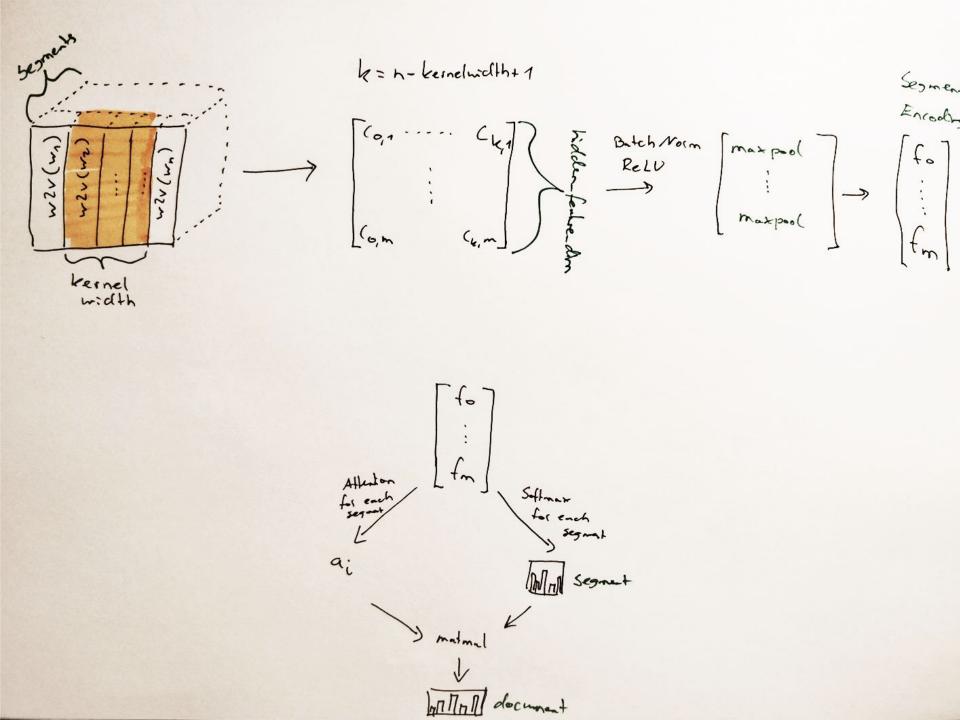
Setup Tensorboard



Model



[1] MILNET: https://github.com/stangelid/oposum





Next Steps

- Training on preprocessed Amazon Review Dataset
- Hyperparameter search
 - Different parameters in paper and in reference implementation
- Comparison of architectures



Muchas Gracias!

Li Canchen, Hendrik Pauthner, Tim Pfeifle Munich, 22. May 2019

