Referat Iuliia Khobotova (Montag, den 22.05.2017)

Comparing representation learning over world-level, character-level and combination of both in NLP tasks

The agenda for this talk was about Comparing representation learning over world-level, character-level and combination of both in NLP tasks.

First of all we had four questions which we should ask.
The first one is how different input styles influence the accuracy of convolutional neural network?
The second one is what is the best set of paramater for CNN?
Furthermore how fast the accuracy will be calculated?
And last what will change the combination of both word- and character-embeddings?

So the Tasks are to compare them in such NLP Tasks like sentiment classification and POS tagging.

Next she was talking about CNN and RNN.
CNN stands for Convolutional Neural Network and RNN is Recurrent Neural Network.
These are two main types of deep neural networks that are widely explored to handle various NLP tasks.

On the next sheet she explained her Experiments, which are changing of paraments for CNN.
The goal here is to search for the best set of parameter that gives max accuracy.

The data which she is using is the Stanford Sentiment Treebank.
This Data has over 200k unique phrases and contains annotated data from movie reviews.

The Evaluation and results are givven through graphical representation which will be shown at the end of her thesis.