

## Part 5

In this part we had to make some adjustments. First, for every word, we padded it's char representation from left and right with zeroes, and we created an embedding vector for padding. We gave each word a representation of 20 chars, words that are under 20 characters was padded, and words that are over 20 chars we used only the prefix 20 chars of the word.

Second, because that the unique characters are smaller than the unique words, the embdding size for each character is 15, to avoid sparse.

The accuracy on the NER dataset after 10 epochs with filter\_size = 5 is 78.56% and on the POS dataset is 95.01%. We can observe an improvement in performance relate to part 4.