Assignment 2 – Window-based Tagging

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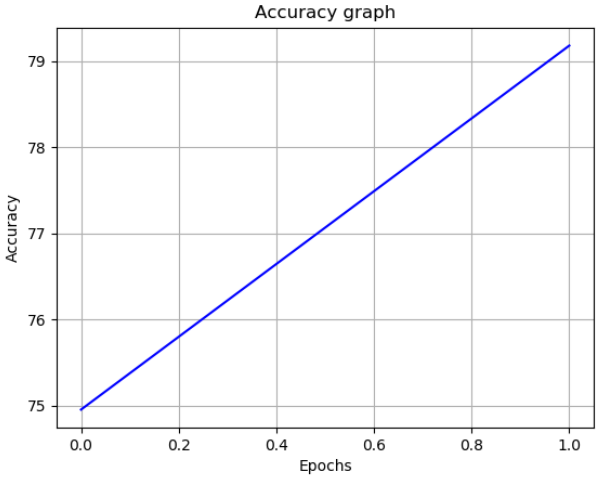
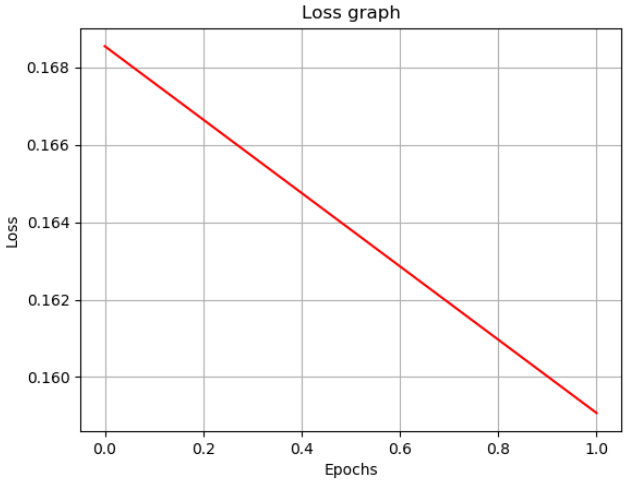
Part 1– A simple window-based tagger

Ner parameters:

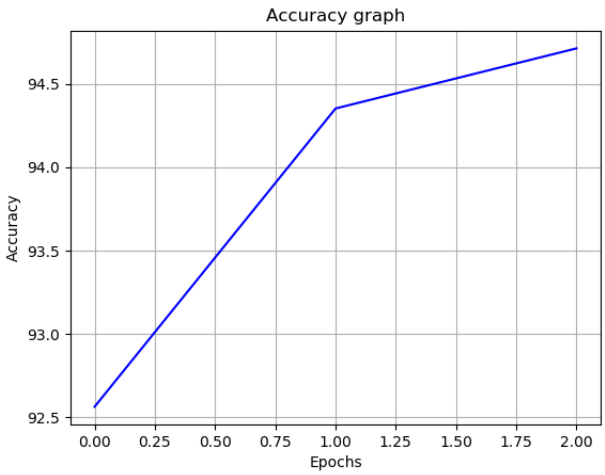
- Learning rate: 0.05
- Epochs: 2
- Hidden dim: 120
- Batch size: 1024
- Accuracy: 79.178%
- Loss: 0.169

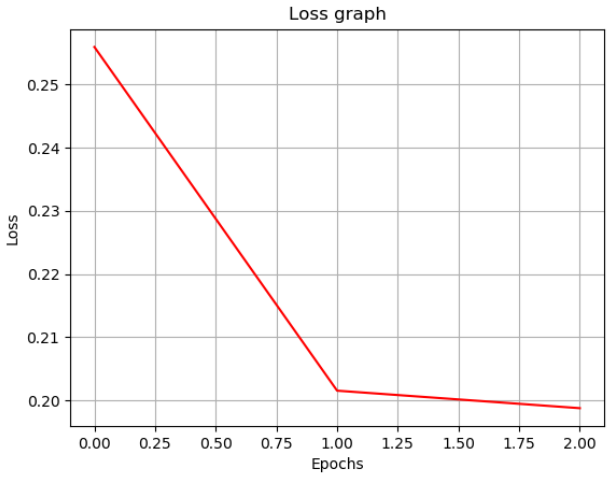




Pos parameters:

- Learning rate: 0.005
- Epochs: 3
- Hidden dim: 110
- Batch size: 1024
- Accuracy: 94.715%
- Loss: 0.199





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Question: what do you do with a word that appears in the train set and not in the dev set? Which word embeddings will you assign to it?

Answer: For each word I will check both for upper case and lower case. If one of them placed inside my train set (WORDS in my code) I will return its index by W2I dictionary, else- I will link it to UNK symbol and return its index.

Question: What vectors will you use for the words surrounding the first word in the sequence?

Answer: for the first and the second words I used global symbol called 'FEATURES_1AND2' and for the fourth and fifth words I used global symbol called 'FEATURES_4AND5'. I padded the word from the dictionary by placing 2 symbols of 'FEATURES_1AND2' + the word + 2 symbol of 'FEATURES_4AND5' so eventually I has a window of 5 words as requested.