

Part3:

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Parameters:

In both tasks the model looked the same:

- Embedding layer (imported from the given file)

- Fully connected (linear) layer

- Activation layer, tanh (as requested)

- Dropout (p=0.2)

- Fully connected layer

- Softmax Layer

We used Adam optimizer with lr=0.001 (default)

Hidden layer size 150

We ran 10 Epochs for each task,

Each epoch ran on 32 batch size

Considerations:

Since the vocabulary is lowercase when we were searching for words in the vocabulary we also searched their lower case form.

For words that aren't in the vocabulary, we looked at the file given and saw that there is a special token UUUNKKK, and some special tokens from (we assume) numbers DG and DG.DG etc (DG=digit), when we encountered a token not in the vocabulary we checked if it's a number and if it's of a shape of an already existing token, if so we gave the relevant DG form and if it's not both we gave it the unknown token.

Model's best Results:

Pos: acc: 93.8% loss: 2.906

Ner: acc: 76% loss: 0.9475



