Part 3

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In order to deal with miss-match between the training and dev data with the word vectors, we first had a slightly different preprocessor that lower case all the words when pooling the word vector. Also, we had a special vector ‘unique’ that we gave to all the unknown words, this way it got trained and it got some signal during the training and wasn’t completely random. In part 4 we already added the extra signal of the suffix and prefix…

Regarding the improvement, with best hyper parameter tuning model 1 reached number higher in the best setup (78% in model 1 vs 76.2% in part 3) but in average the models were about the same, in the POS we got the almost same results (95.03 in part 3 cs 95.12 in part 3). We believe it is due the disadvantage of the unknown words that takes the model a bit down.

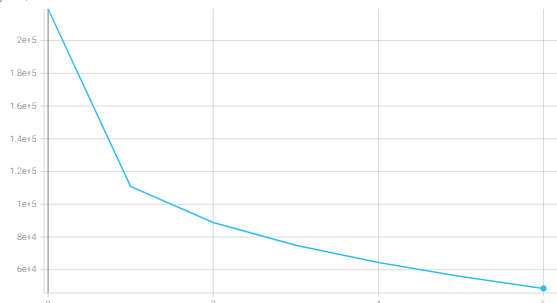
Our parameters of the best models:

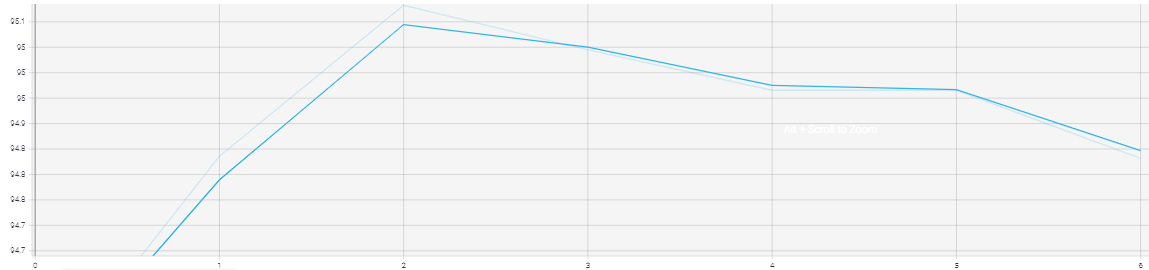
POS:

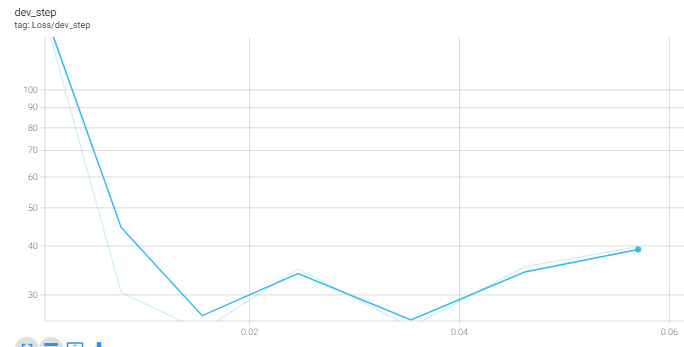
* **Hidden dim size : 200**
* **Batch Size : 128**
* **Learning rate: 0.001**

NER:

* **Hidden dim size : 200**
* **Batch Size : 32**
* **Learning rate: 0.001**

**The POS Loss - Dev:**

**The POS accuracy - Dev** 

**The Ner loss - Dev:**

**The Ner accuracy - Dev**

