Report- Assignment 3 - NLU- Dinesh Kumar 14428

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1 Model 1:-

NER corpus is used to build a NER system.features such as word identity, word suffix, word shape also, some information from nearby words is used for defining. used feature dicts by using sklearn-crfsuite.for thsi model after training the predicted accuracy for the test set is:-79.187

2 Model-2:-

2.1 Model parameters:-

*o/p layer:- softmax activation
*bi-directional LSTM
hidden layer:-100
dropout:-0.1
*LSTM model:-
i/p dimension of embedding layer:-11311
o/p dimension:-50
max i/p length is 100

2.2 Results:-

*splitted dataset
training set:- 0.80
test set:-0.20
*result:-
training loss: 0.0638 - training acc: 0.9770
val loss: 0.0994 - val acc: 0.9683

Figure 1 shows a distribution to check how long sentences are:-

Figure 1 shows a plot for training acc and val acc

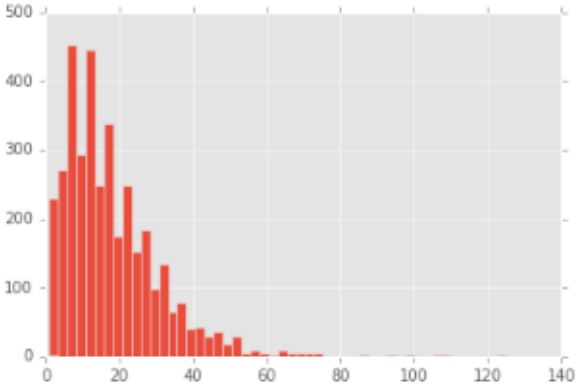

Figure 1: dist nlu

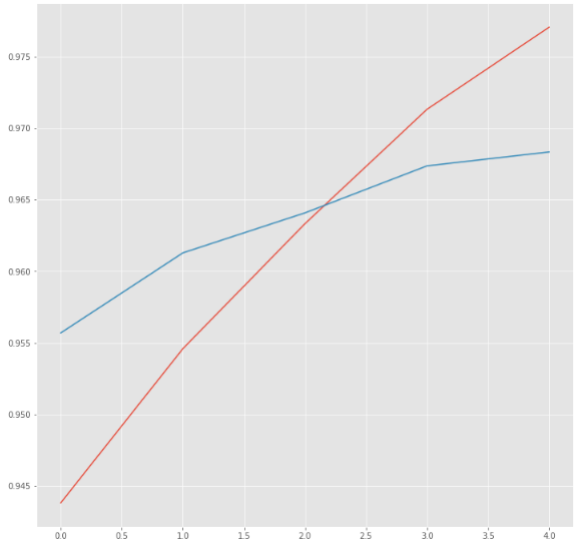

Figure 2: accu val plot nlu