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## **Ner**

### **A model**

Command-line parameters: **a train model ner**  
Word embedding dim = 115  
Epochs = 5  
LSTM layer size = 1  
LSTM hidden dim = 50  
Optimizer = Adam trainer (with default learning rate 0.001)  
Accuracy: 75.382%  
Average loss: 0.0155  
Time the model being trained: 2331.224

### **B model**

Command-line parameters: **b train model ner**  
Char embedding dim = 100  
Epochs = 5  
LSTM layer size = 1  
LSTM hidden dim = 50  
Optimizer = Adam trainer (with default learning rate 0.001)  
Accuracy: 62.704 %  
Average loss: 0.118  
Time the model being trained: 5465.525

### **C model**

Command-line parameters: **c train model ner**  
Word embedding dim = 115  
Sub word embedding dim = 115  
Epochs = 5  
LSTM layer size = 1  
LSTM hidden dim = 50  
Optimizer = Adam trainer (with default learning rate 0.001)  
Accuracy: 81.055%  
Average loss: 0.009  
Time the model being trained: 2803.603

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### D model

Command-line parameters: **d train model ner**

Word embedding dim = 115

Char embedding dim = 20

Epochs = 5

LSTM layer size = 1

LSTM hidden dim = 50

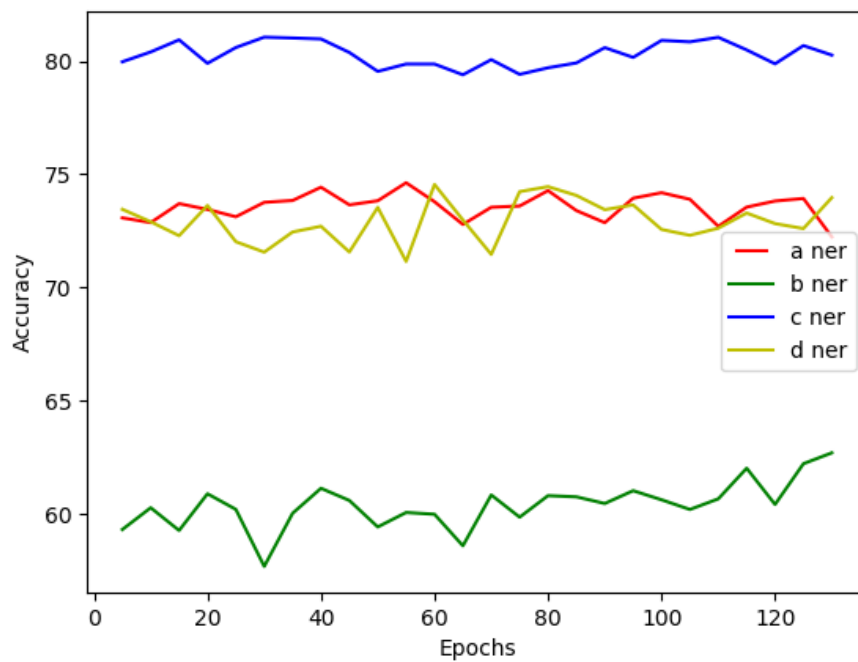
Optimizer = Adam trainer (with default learning rate 0.001)

Accuracy: 74.551%

Average loss: 0.033

Time the model being trained: 4818.953

### Ner graphs



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## **POS**

### **A model**

Command-line parameters: **a train model pos**  
Word embedding dim = 115  
Epochs = 5  
LSTM layer size = 1  
LSTM hidden dim = 50  
Optimizer = Adam trainer (with default learning rate 0.001)  
Accuracy: 94.302%  
Average loss: 0.068  
Time the model being trained: 3817.563

### **B model**

Command-line parameters: **b train model pos**  
Char embedding dim = 100  
Epochs = 5  
LSTM layer size = 1  
LSTM hidden dim = 50  
Optimizer = Adam trainer (with default learning rate 0.001)  
Accuracy: 92.170%  
Average loss: 0.204  
Time the model being trained: 8863.222

### **C model**

Command-line parameters: **c train model pos**  
Word embedding dim = 115  
Sub word embedding dim = 115  
Epochs = 5  
LSTM layer size = 1  
LSTM hidden dim = 50  
Optimizer = Adam trainer (with default learning rate 0.001)  
Accuracy: 95.888%  
Average loss: 0.056  
Time the model being trained: 5107.790

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### D model

Command-line parameters: **d train model pos**

Word embedding dim = 115

Char embedding dim = 100

Epochs = 5

LSTM layer size = 1

LSTM hidden dim = 50

Optimizer = Adam trainer (with default learning rate 0.001)

Accuracy: 95.564%

Average loss: 0.078

Time the model being trained: 10697.625

### Pos graphs

