# INLP A2 Report

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### February 2024

### Models

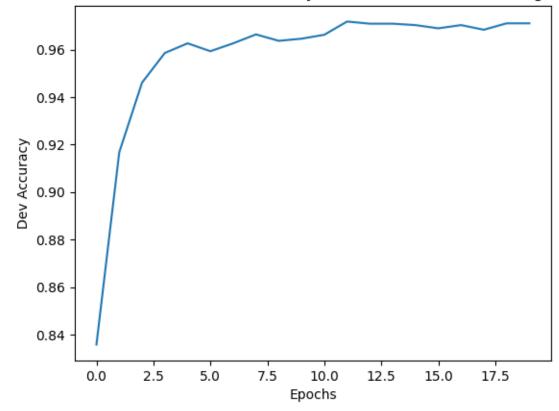
OneDrive Link : Link

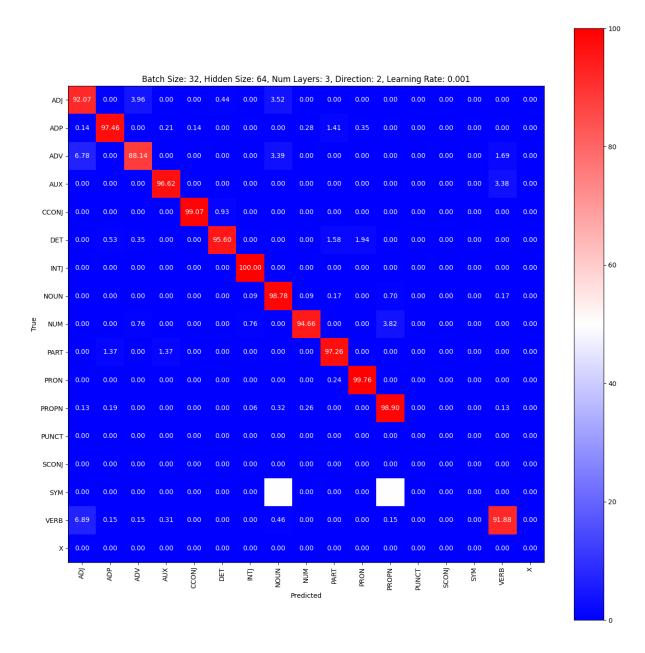
### Best 3 RNNs

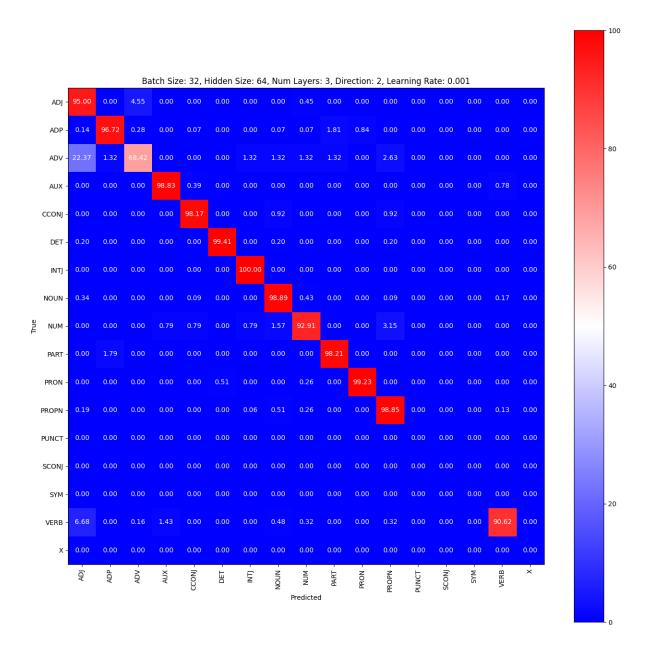
### ${\bf Hyperparameter\ set\ 1}$

Batch Size = Hidden size = No. of layers = Directions = Learning Rate = 0.001

atch Size: 32, Hidden Size: 64, Num Layers: 3, Direction: 2, Learning Rate: 0.





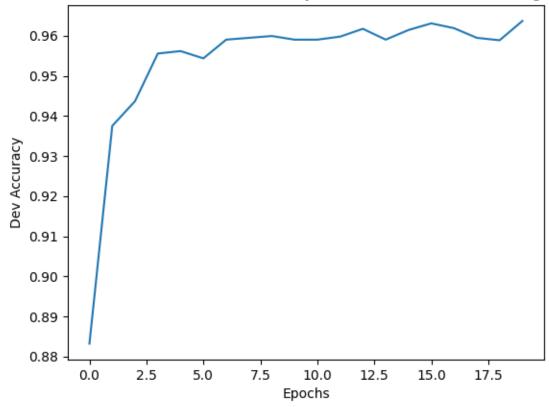


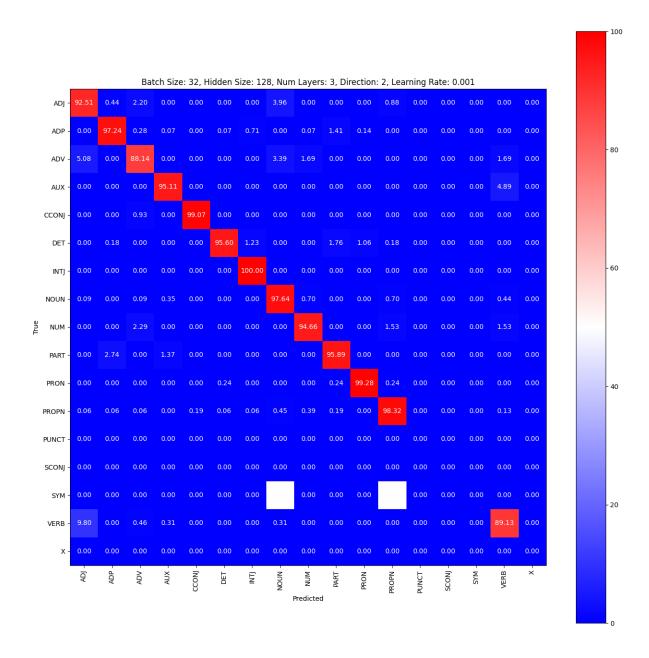
### Hyperparameter set 2

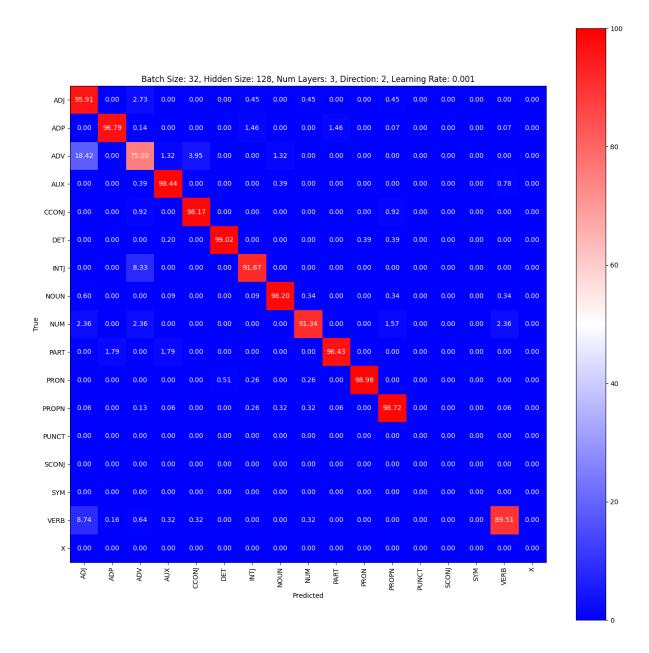
Batch Size = Hidden size = No. of layers = Directions = Learning Rate = 0.001

# Dev Accuracy vs Epochs

tch Size: 32, Hidden Size: 128, Num Layers: 3, Direction: 2, Learning Rate: 0





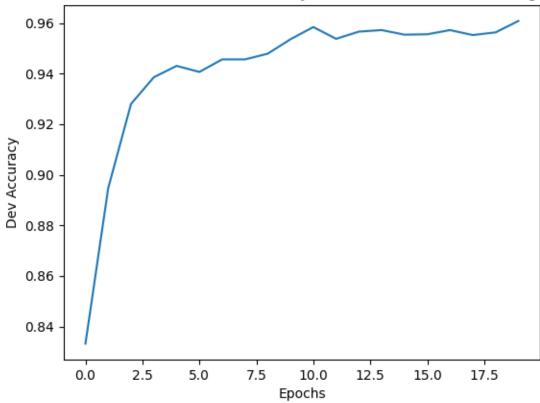


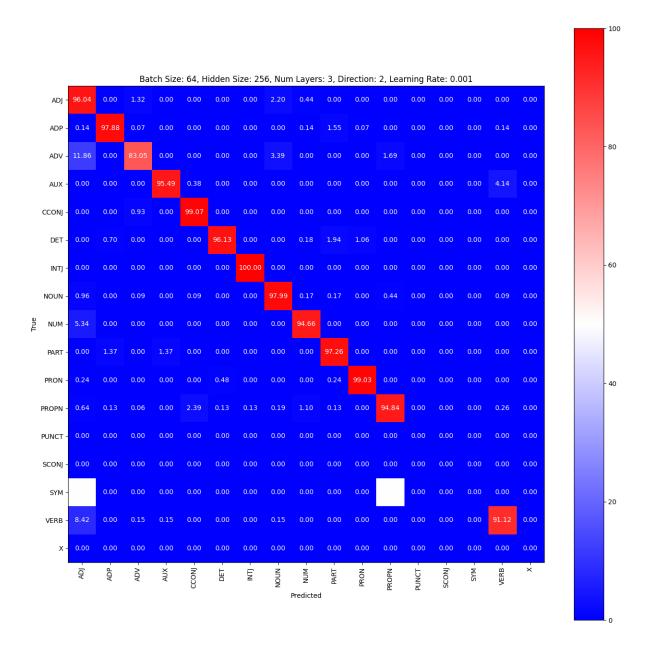
### Hyperparameter set 3

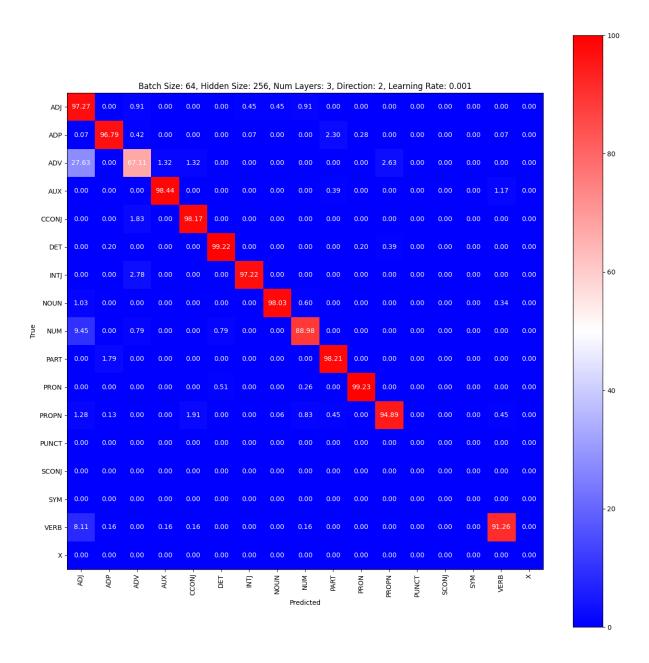
Batch Size = Hidden size = No. of layers = Directions = Learning Rate = 0.001

# Dev Accuracy vs Epochs

tch Size: 64, Hidden Size: 256, Num Layers: 3, Direction: 2, Learning Rate: 0







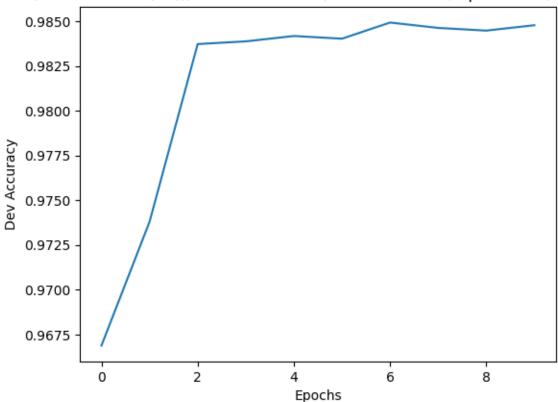
### Best 3 ANNs

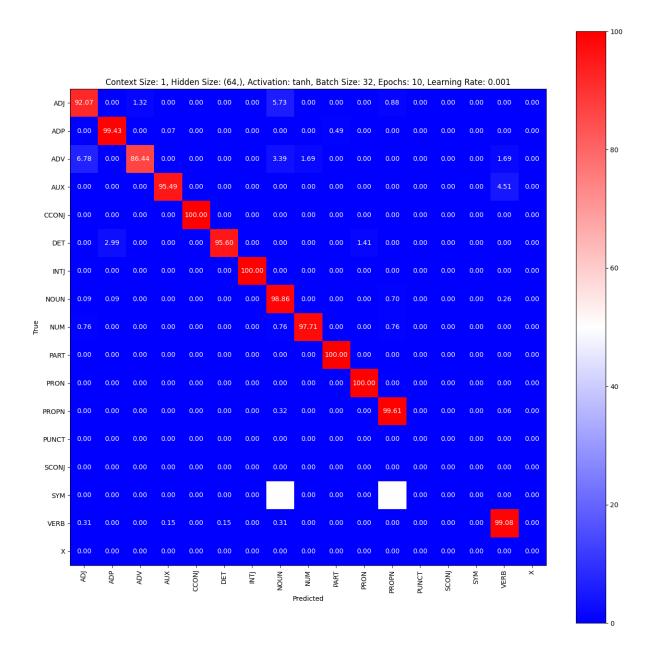
### ${\bf Hyperparameter\ set\ 1}$

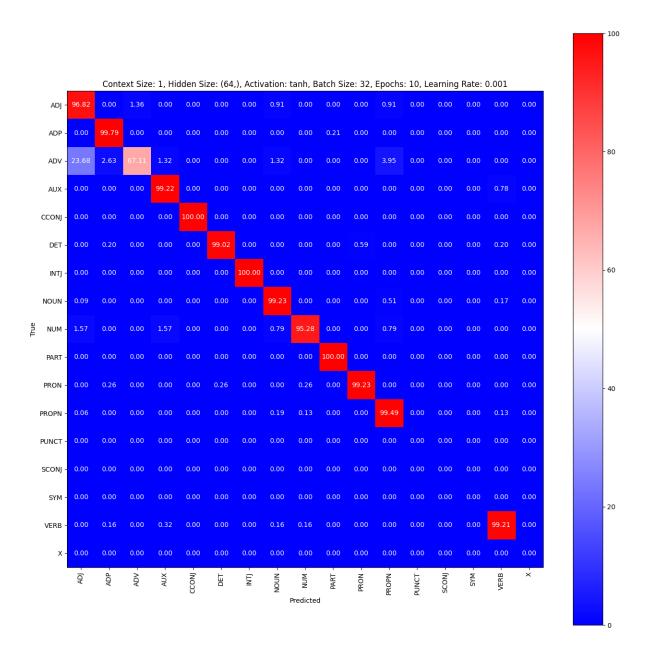
Context Size = 1 Hidden Layer Sizes = [64] Activation =  $\tanh$ Batch Size = 32 Epochs = 10 Learning Rate = 0.001

### Dev Accuracy vs Epochs







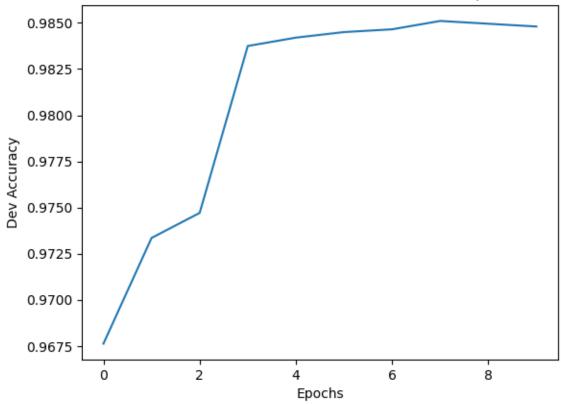


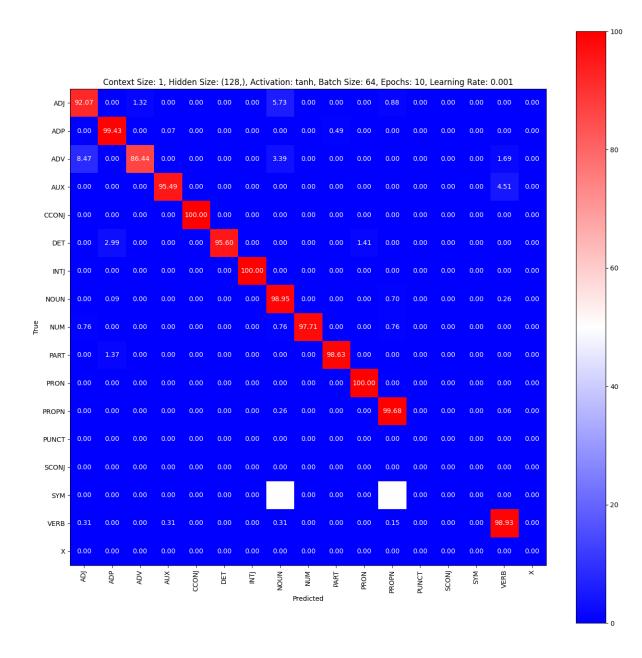
### ${\bf Hyperparameter\ set\ 2}$

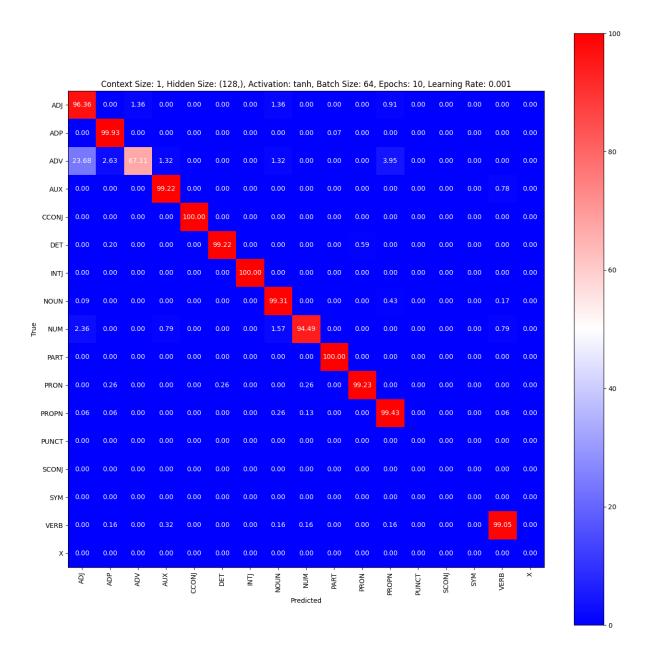
Context Size = 1 Hidden Layer Sizes = [128] Activation =  $\tanh$ Batch Size = 64 Epochs = 10 Learning Rate = 0.001

### Dev Accuracy vs Epochs

2: 1, Hidden Size: (128,), Activation: tanh, Batch Size: 64, Epochs: 10, Learnir







### Hyperparameter set 2

Context Size = 1 Hidden Layer Sizes = [128] Activation =  $\tanh$ Batch Size = 128 Epochs = 20 Learning Rate = 0.001

# Dev Accuracy vs Epochs

: 1, Hidden Size: (128,), Activation: tanh, Batch Size: 128, Epochs: 20, Learnii

