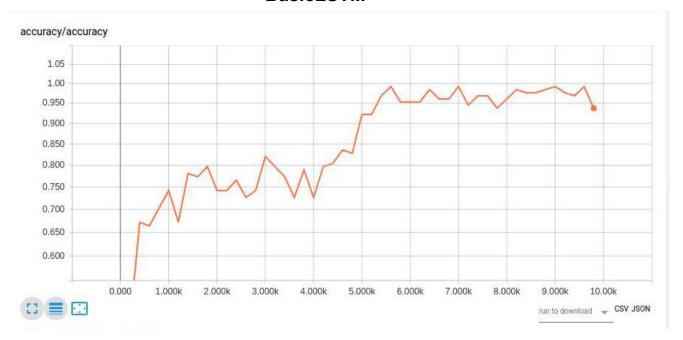
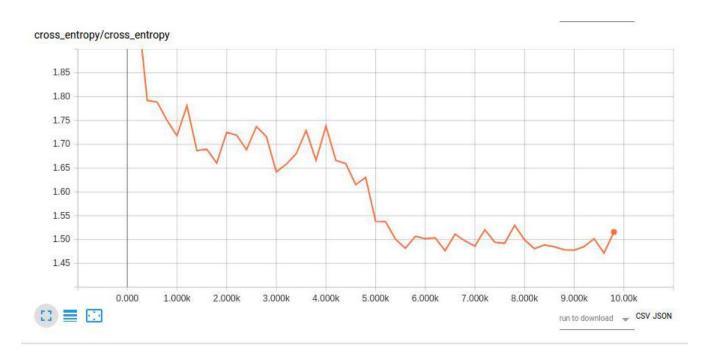
Deep Learning PA_3

Nived Narayanan EP14B035 1)

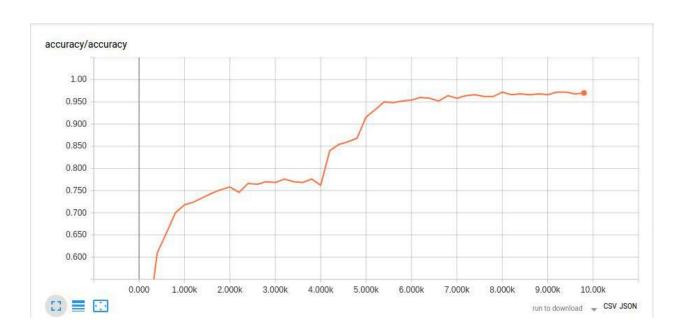
BasicLSTM



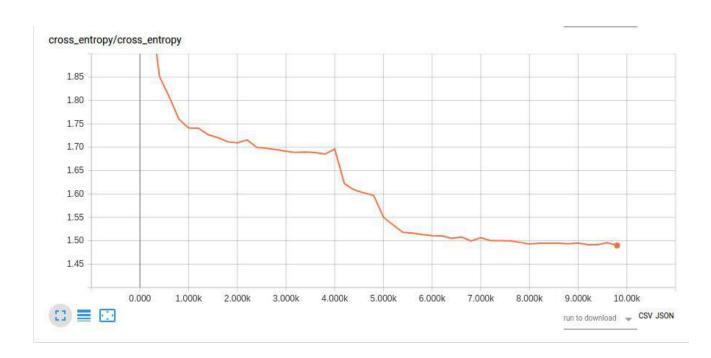
Training Accuracy



Training Loss

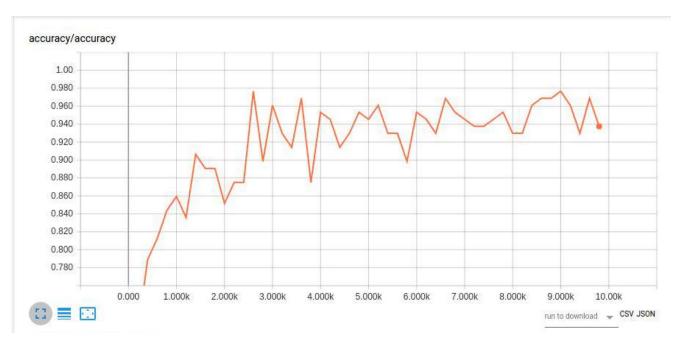


Validation Accuracy

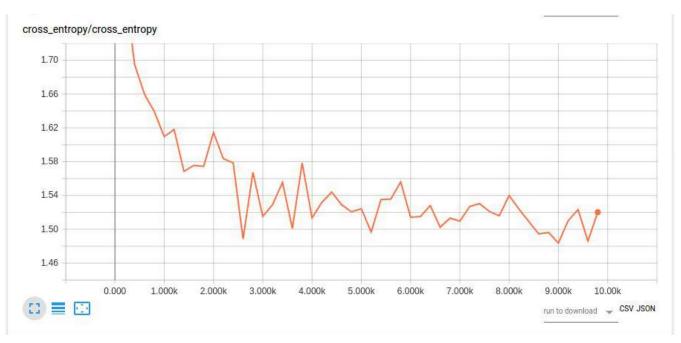


Validation loss

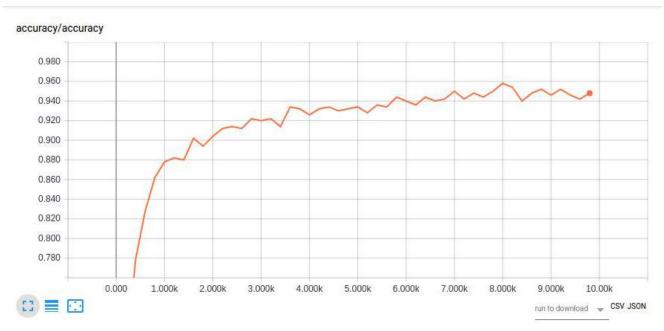
BasicRNN



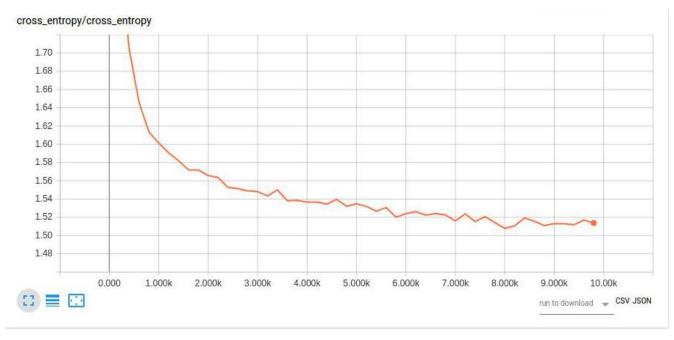
Training Accuracy



Training Loss

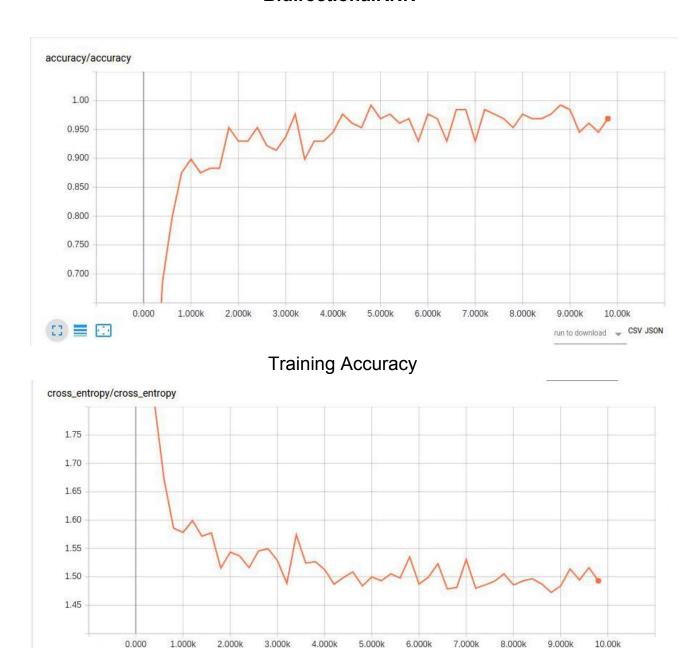


Validation Accuracy



Validation Loss

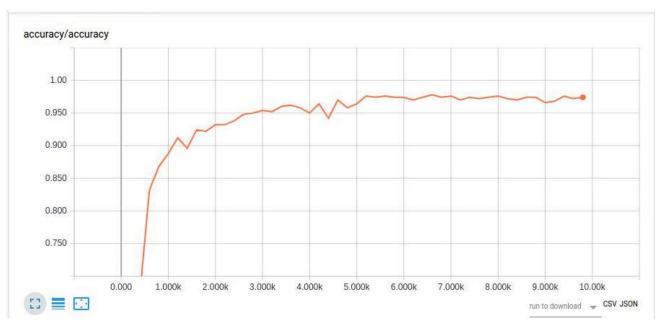
BidirectionalRNN



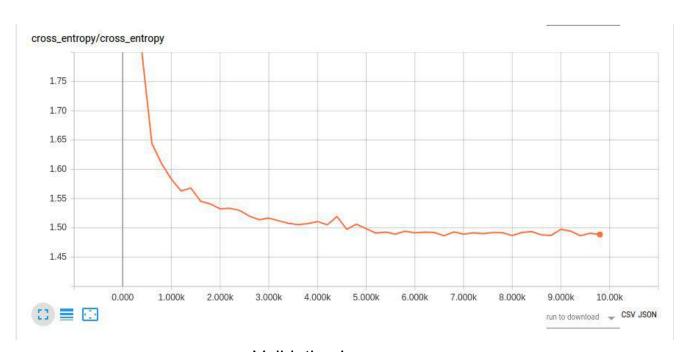
Training Loss

run to download 🕌 CSV JSON

<u>Training error over 10,000 images</u> = 0.96929997

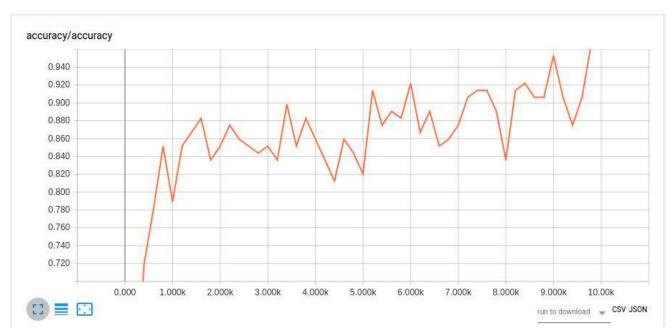


Validation Accuracy

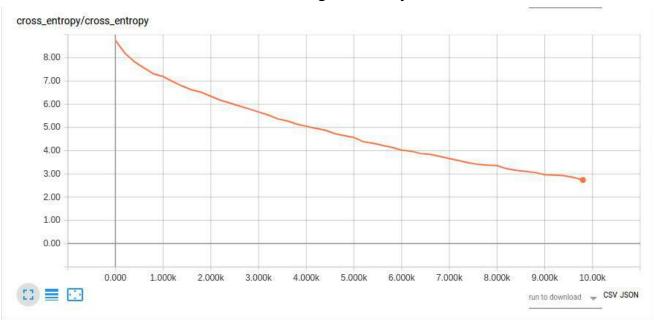


Validation Loss

LSTM with L2 regularization for neural net weights

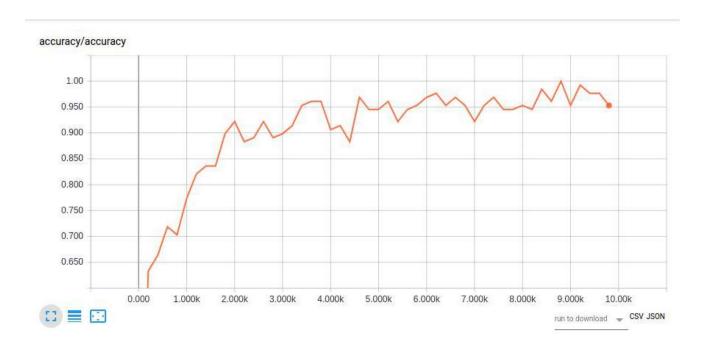


Training Accuracy

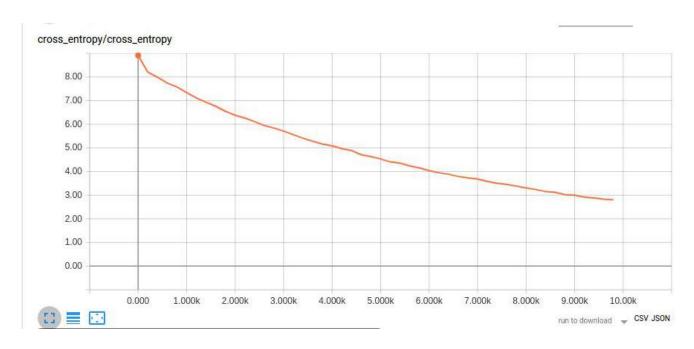


Training Loss

RNN with L2 Regularization for weights of Neural Network

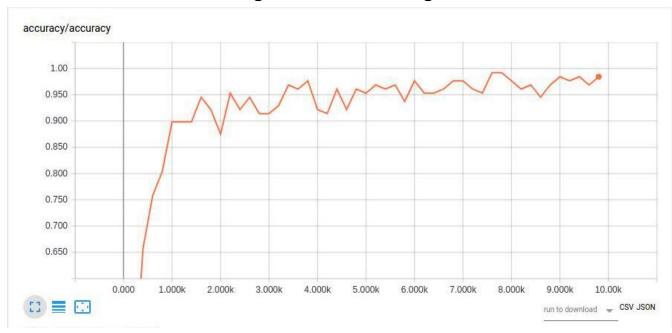


Training Accuracy

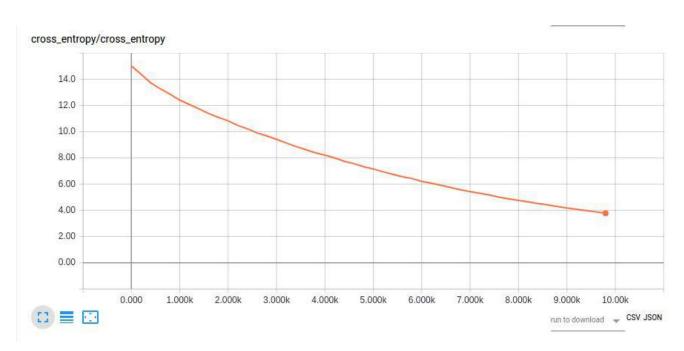


Training Loss

BidirectionalRNN with L2 regularization for weights of Neural Network



Training Accuracy



Training Loss

True label v/s predicted for BasicLSTM

1 / 1,7,2

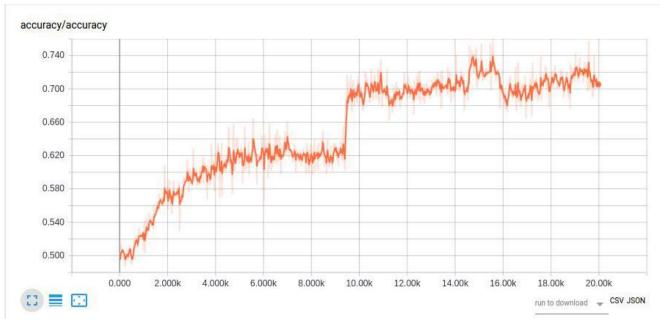
7 / 7,1,9

4 / 4,7,9

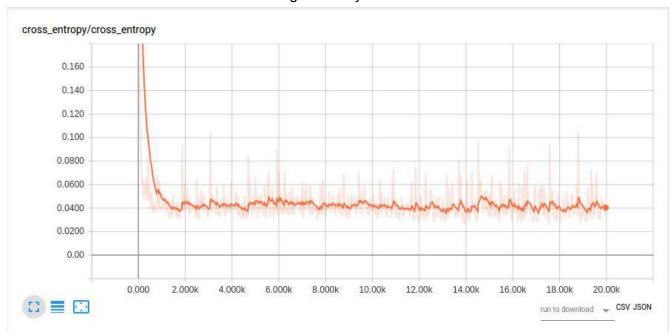
5 / 5,3,8

0/0,9,6

2) L = 5, Sate vector size = 5 (MSE cost function)



Training Accuracy



Training Loss

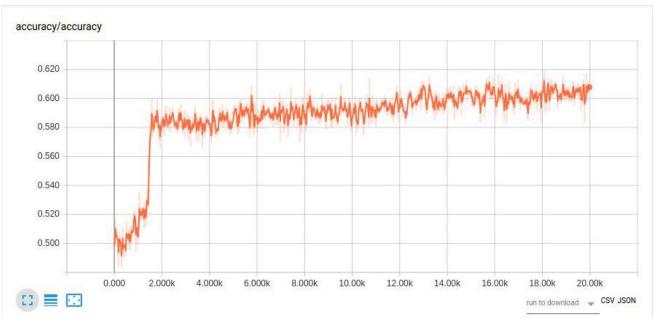


Test Accuracy

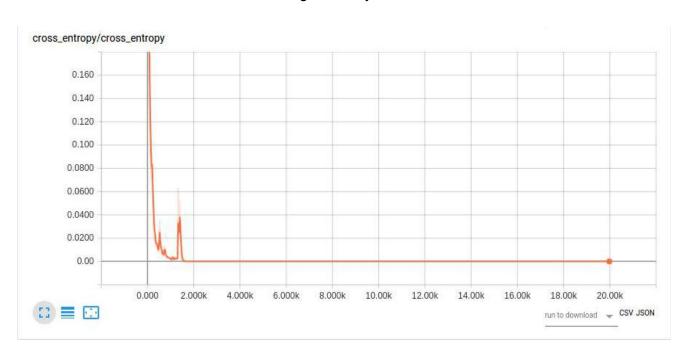


Test Loss

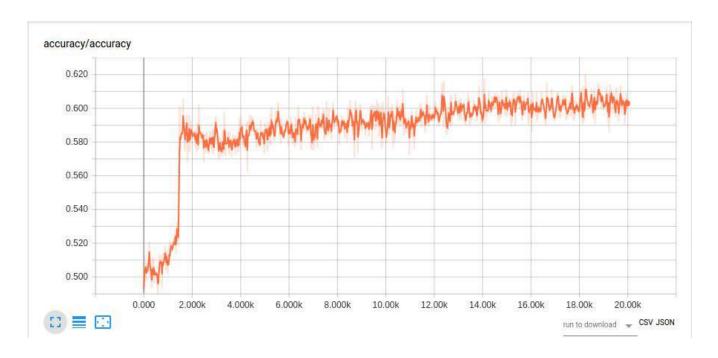
L = 5, Sate vector size = 10 (MSE cost function)



Training Accuracy



Training Loss

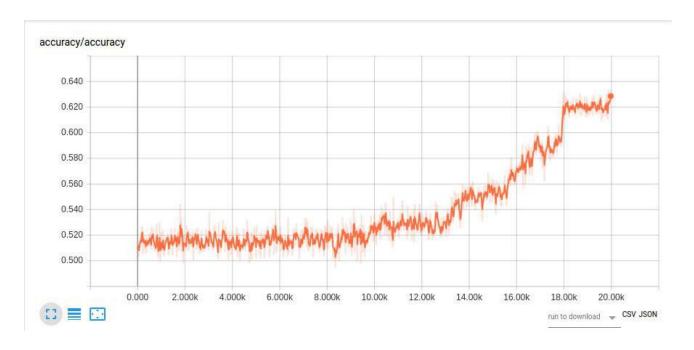


Test Accurcy

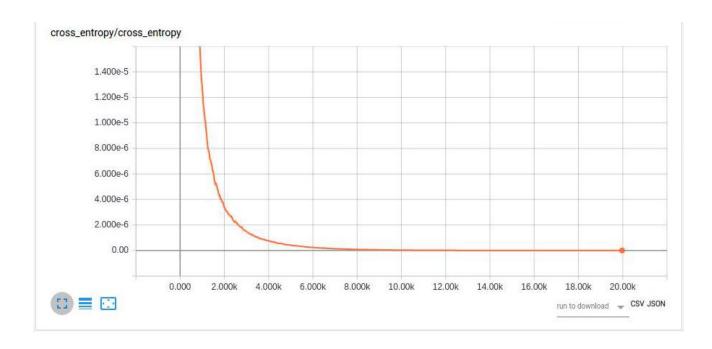


Test Loss

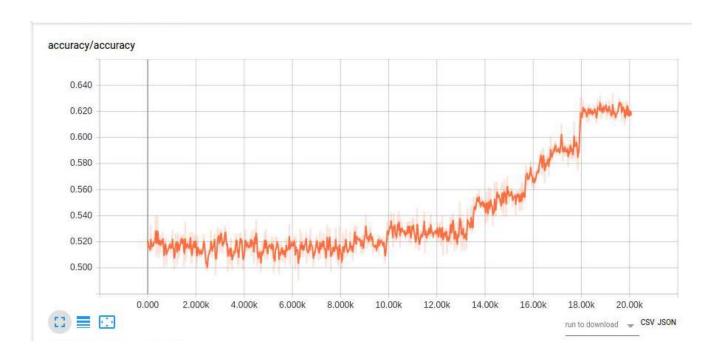
L = 3, Sate vector size = 10 (MSE cost function)



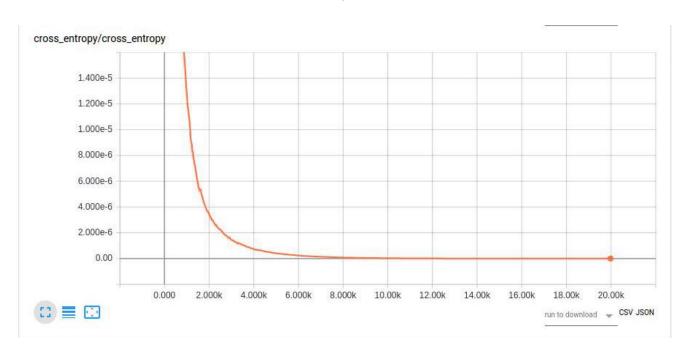
Training Accuracy



Training Loss



Test Accuracy

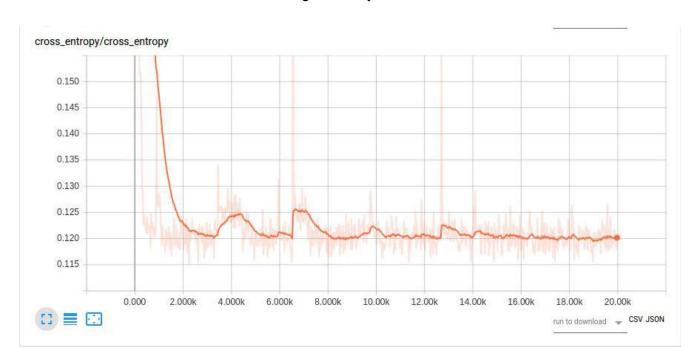


Test Loss

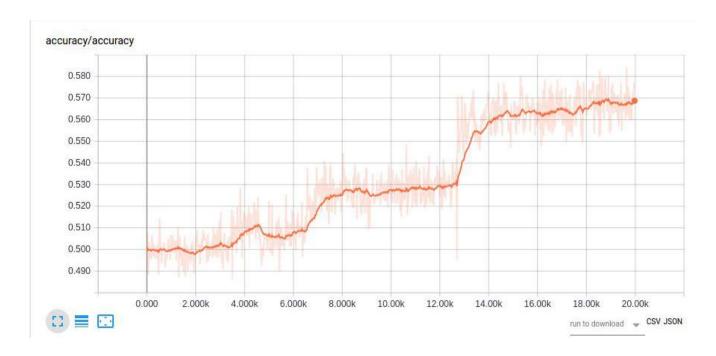
L = 10, Sate vector size = 5 (MSE cost function)



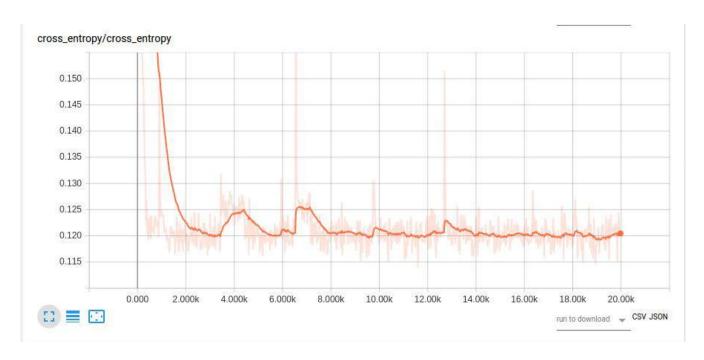
Training Accuracy



Training Loss



Test Accuracy



Test Loss

L = 5, Sate vector size = 10 (Cross entropy cost function)



Test Accuracy



Test Loss