

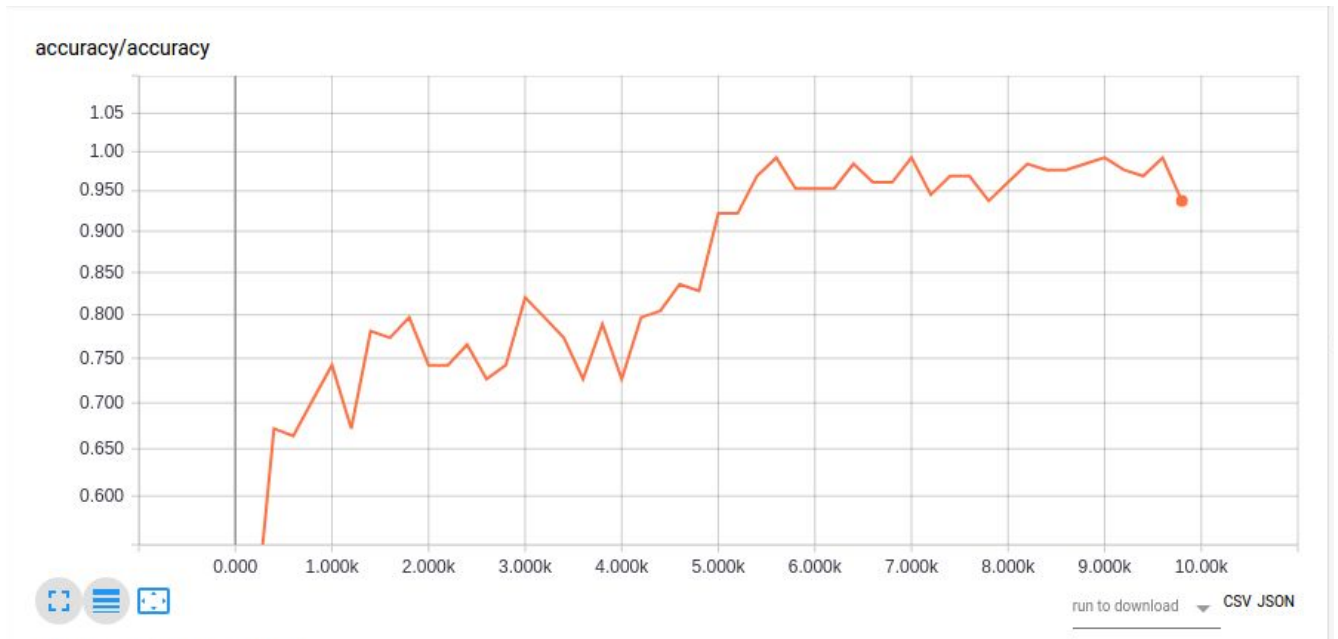
Deep Learning PA_3

Nived Narayanan

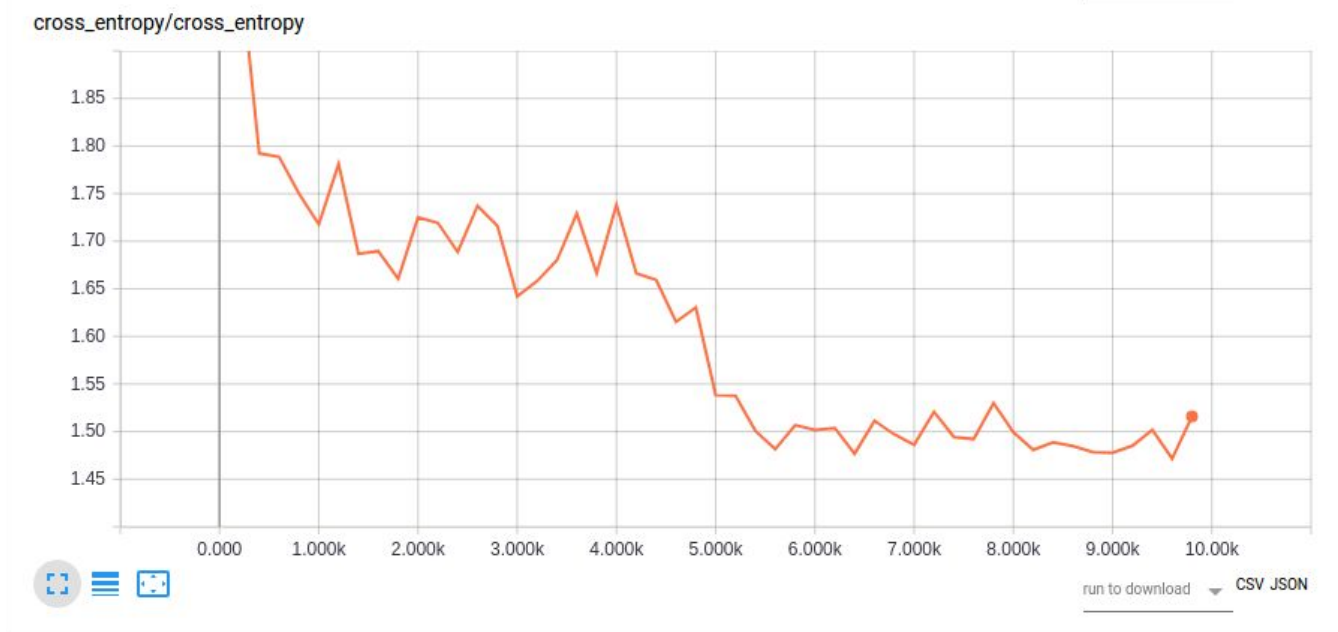
EP14B035

1)

BasicLSTM

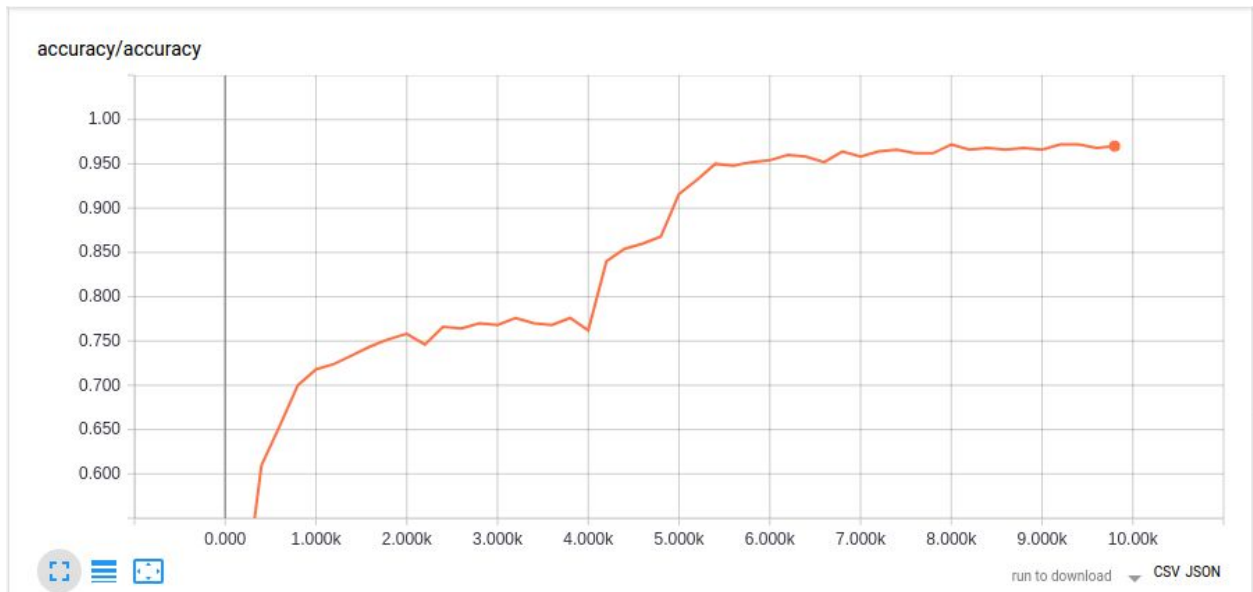


Training Accuracy

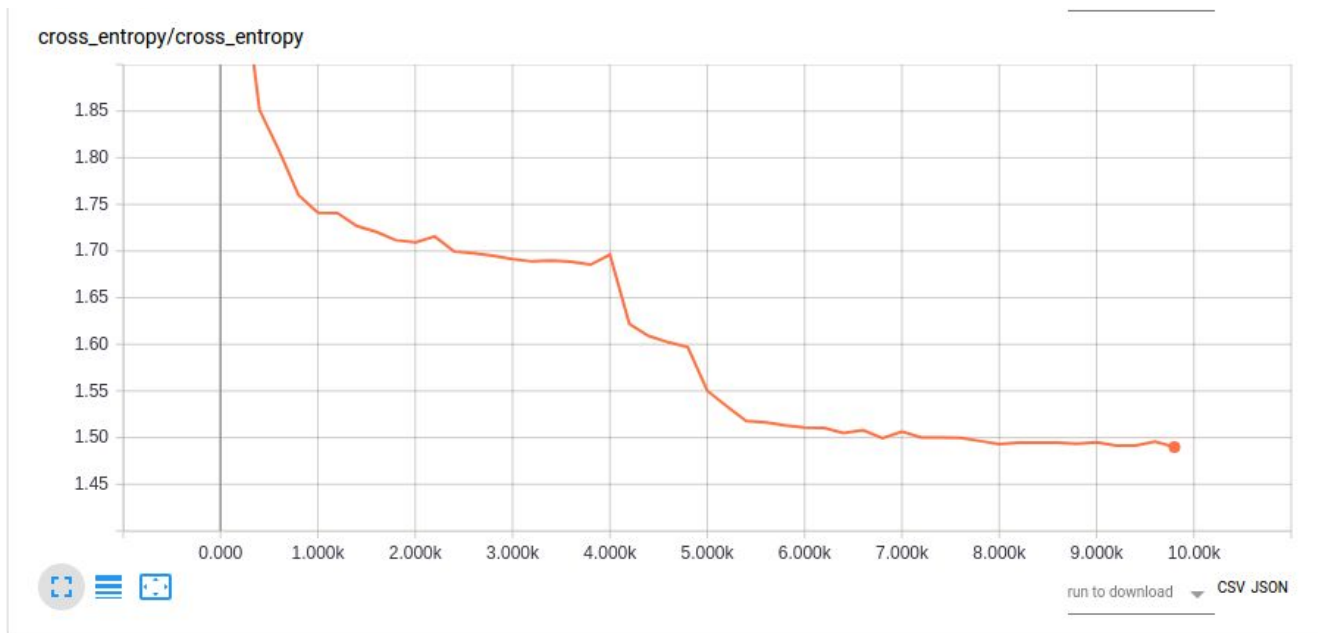


Training Loss

Training error over 10,000 images = 0.96719998

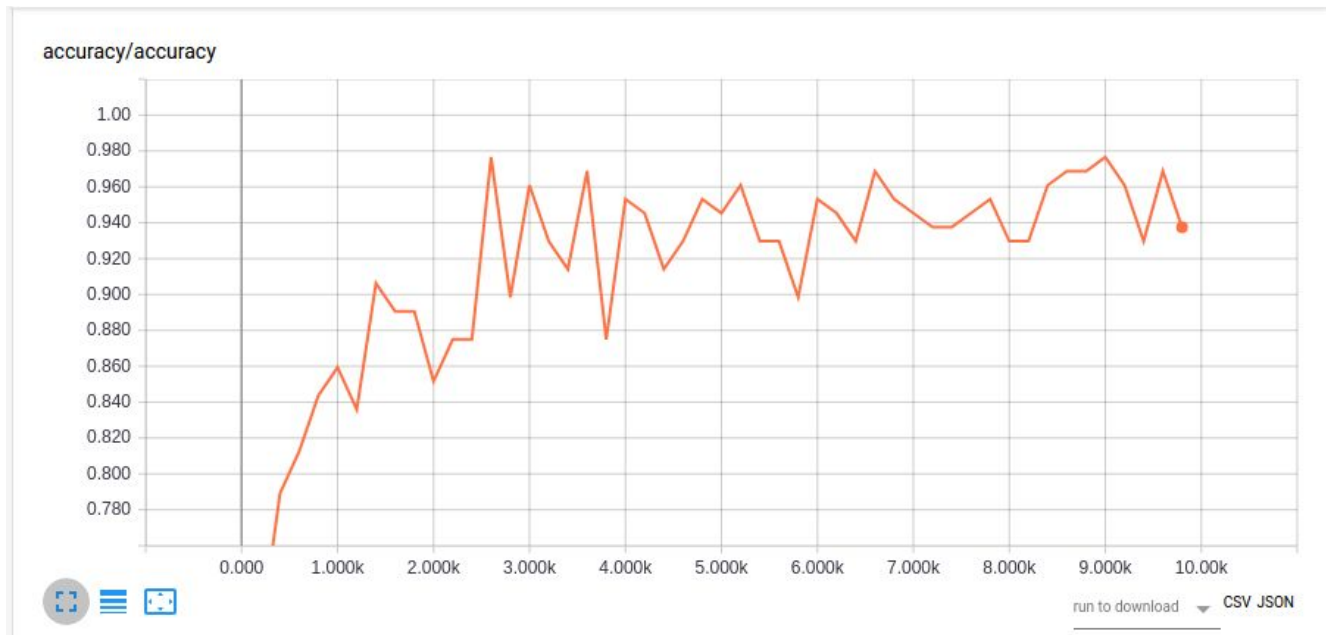


Validation Accuracy

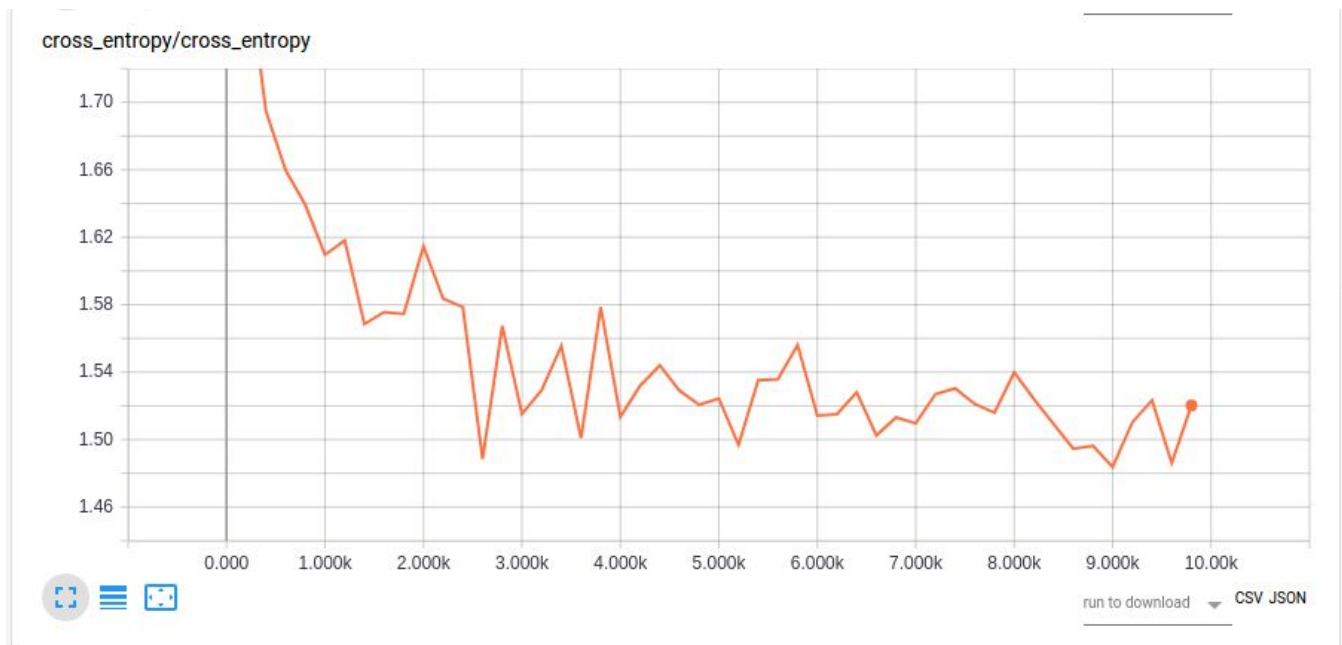


Validation loss

BasicRNN



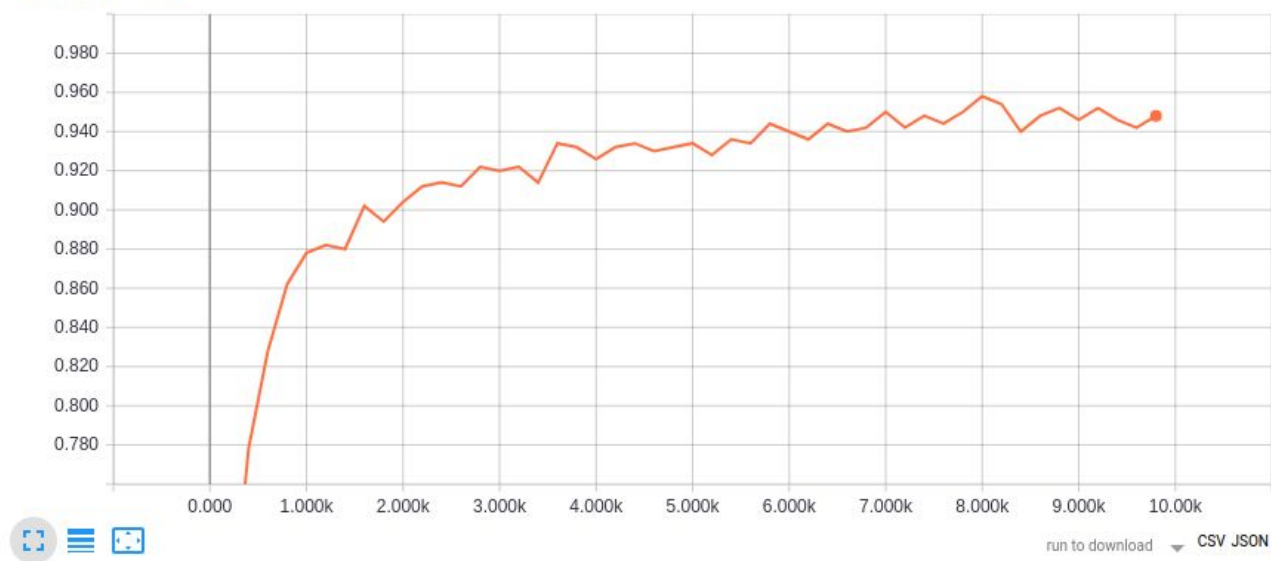
Training Accuracy



Training Loss

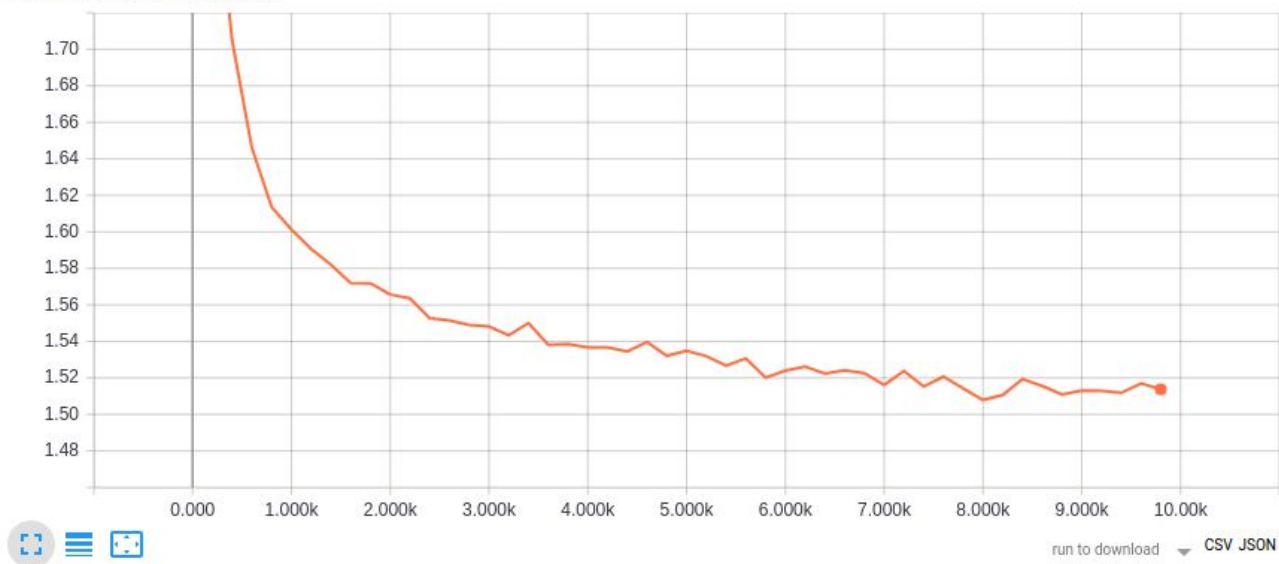
Training error over 10,000 images = 0.95459998

accuracy/accuracy



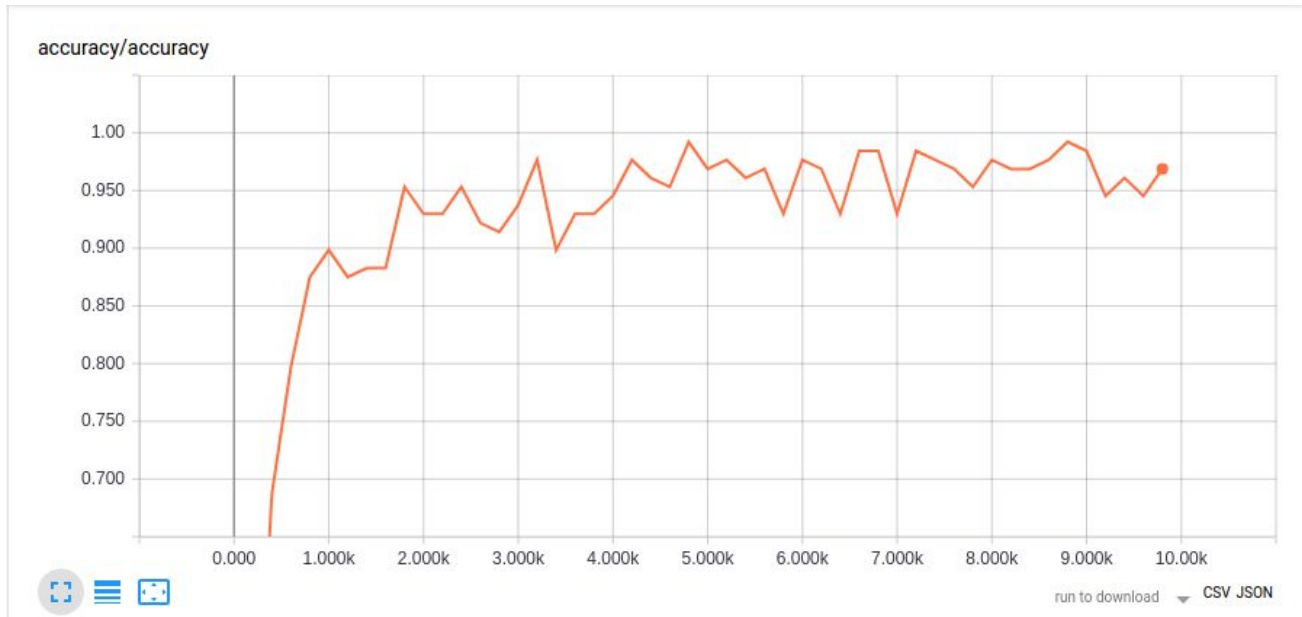
Validation Accuracy

cross_entropy/cross_entropy

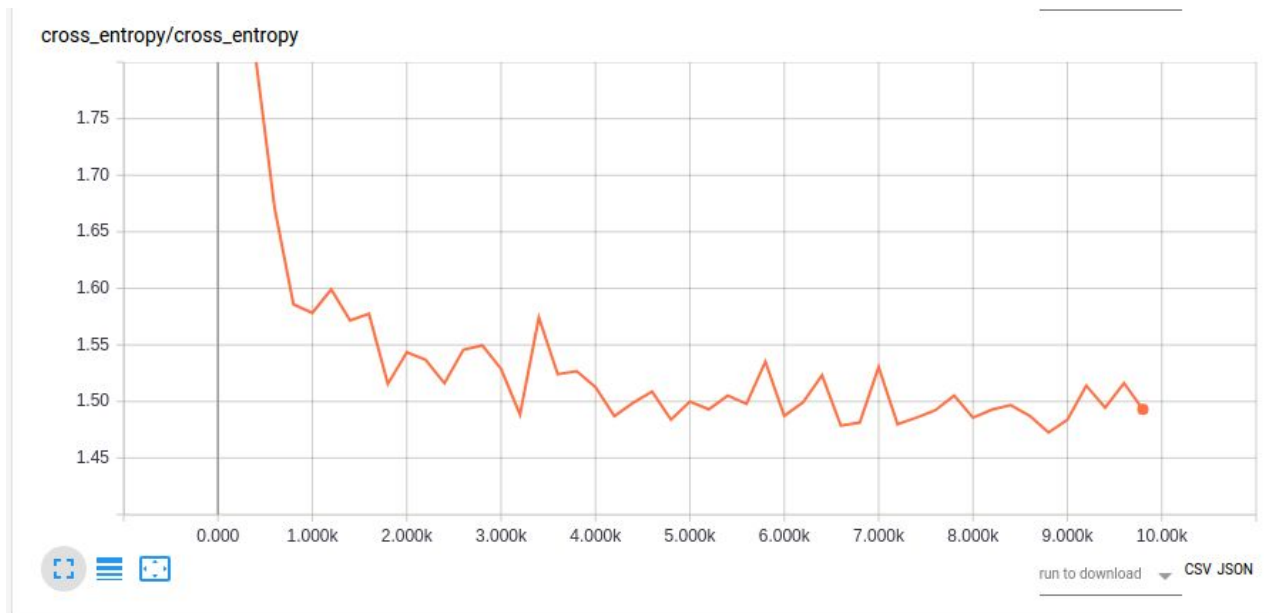


Validation Loss

BidirectionalRNN

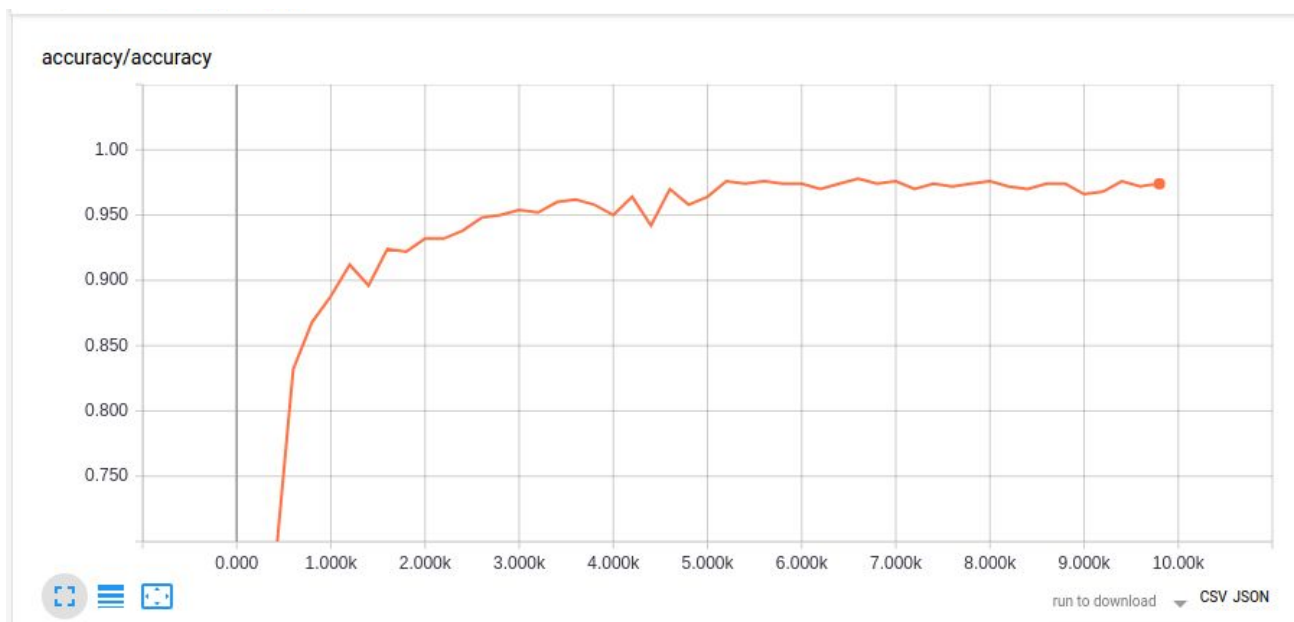


Training Accuracy

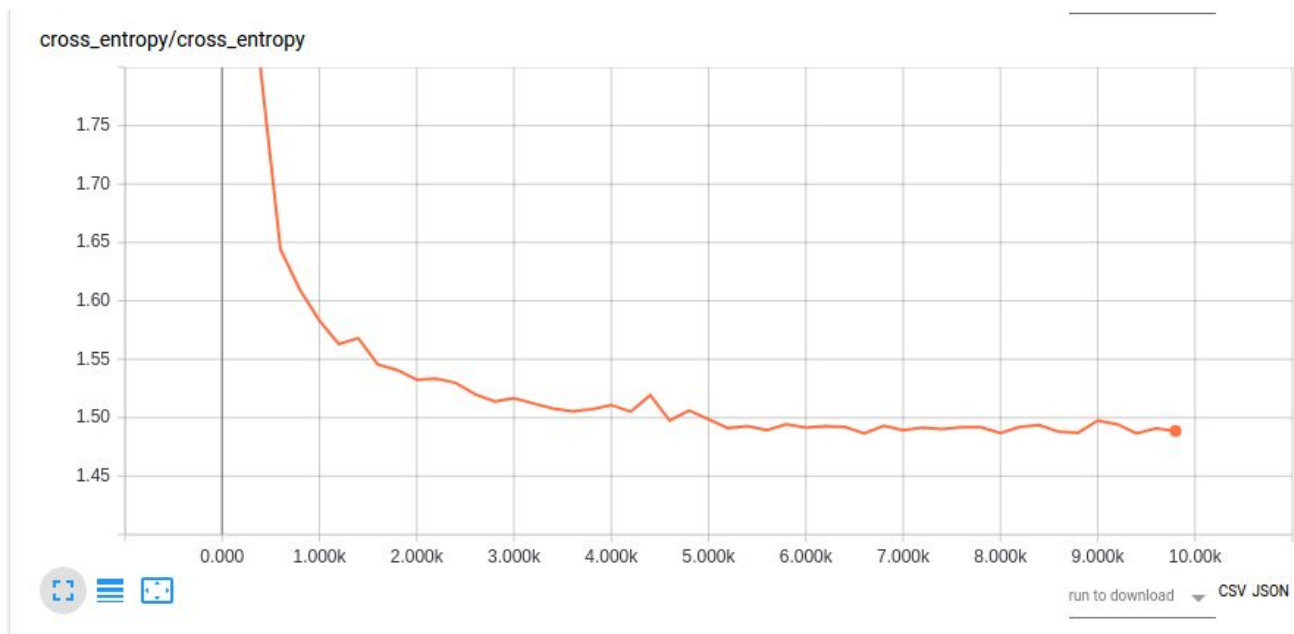


Training Loss

Training error over 10,000 images = 0.96929997

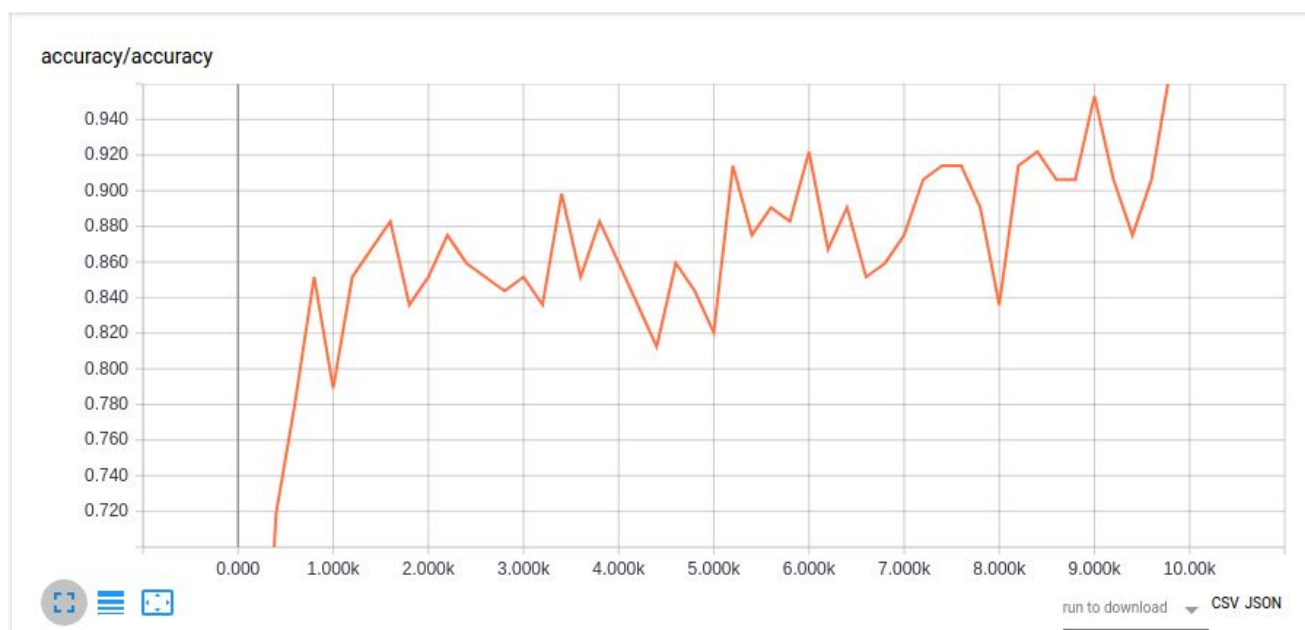


Validation Accuracy

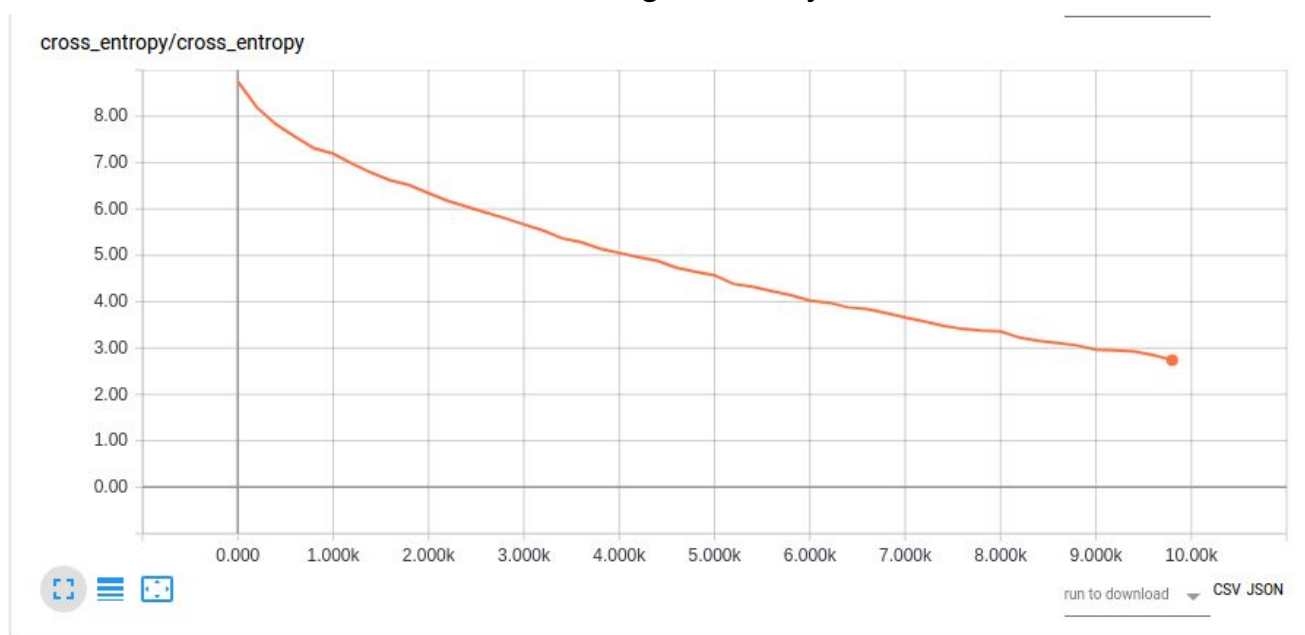


Validation Loss

LSTM with L2 regularization for neural net weights



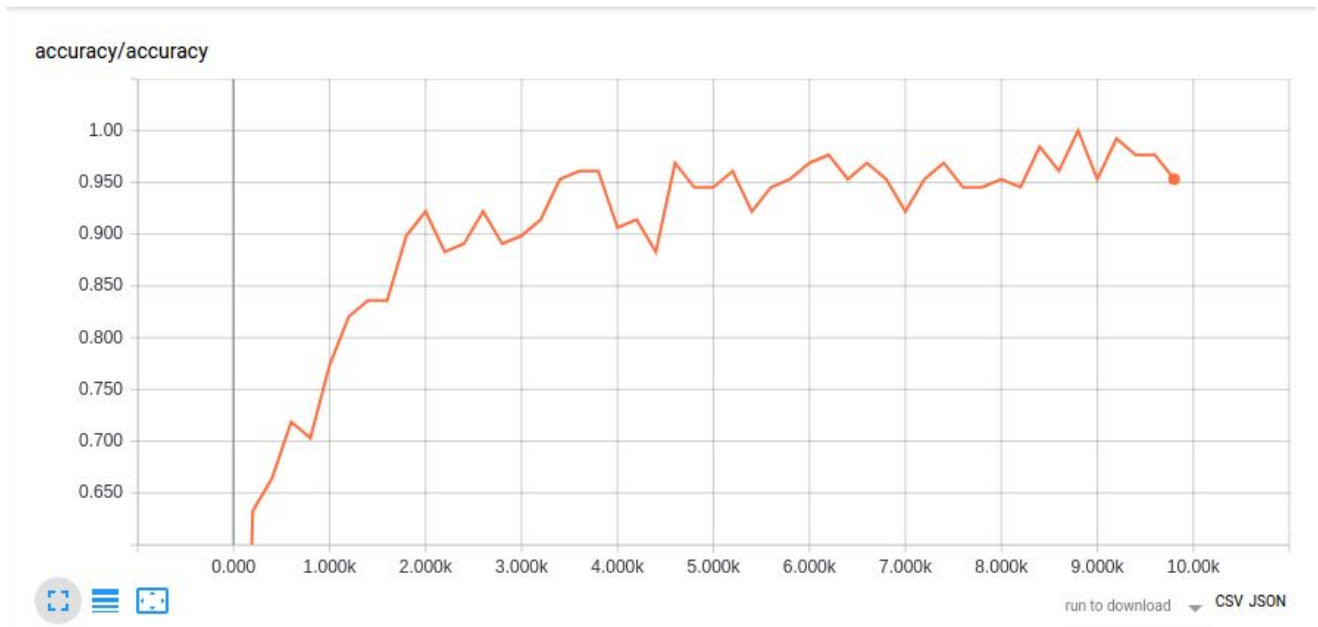
Training Accuracy



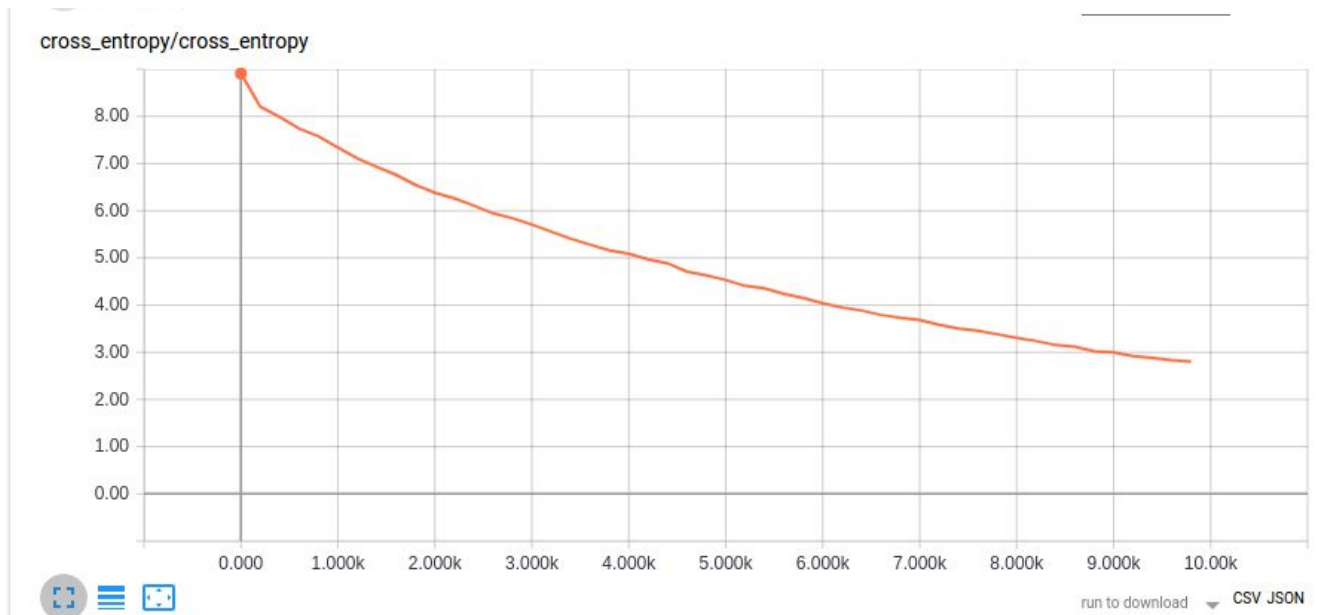
Training Loss

Training error over 10,000 images = 0.95539999

RNN with L2 Regularization for weights of Neural Network



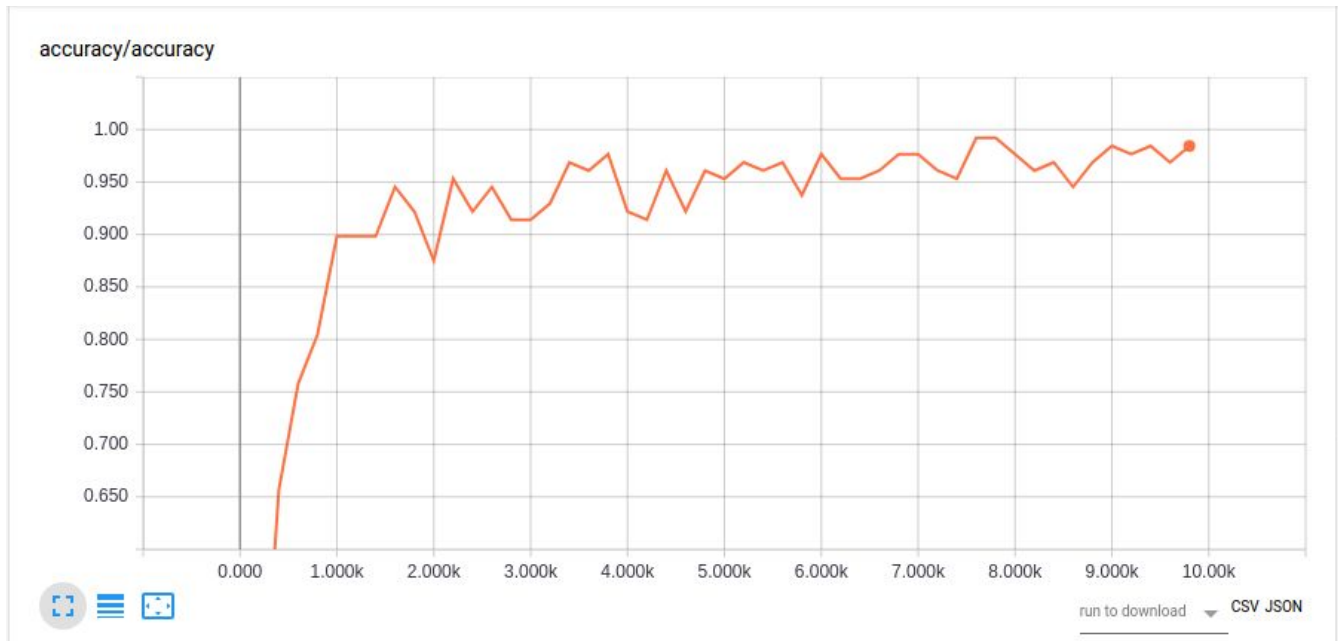
Training Accuracy



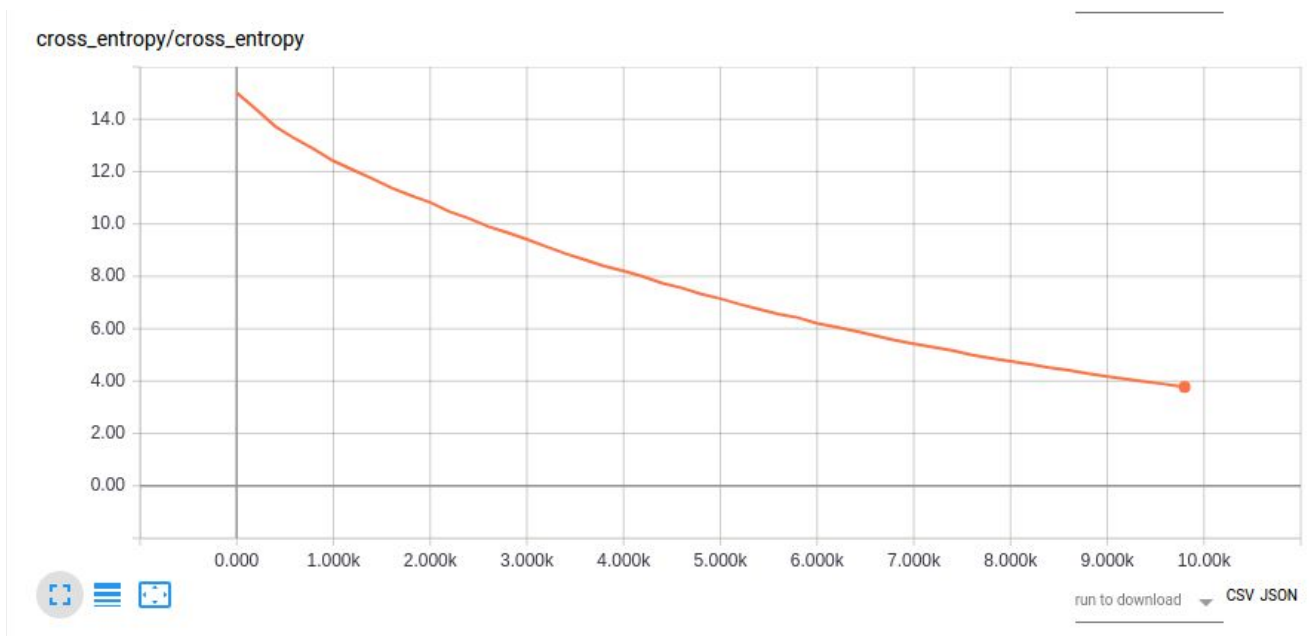
Training Loss

Training error over 10,000 images = 0.95929998

BidirectionalRNN with L2 regularization for weights of Neural Network



Training Accuracy



Training Loss

Training error over 10,000 images = 0.96649998

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)