HW2 – Asaf Mizrahi & Yahel Sherman

We choose to use word2vec encoder from genism library with a dimension vector of 200, there is no special reason for choosing this specific encoder, it was our first attempt which brought us to approximately 95% accuracy, this result proved that this encoder can make excellent job on phrasing the sentence’s sentiment.

The neural network we used consisted from 3 layers as follow:

200to100>>ReLu>>dropout(0.1)>>

100to50>>ReLu>>dropout(0.1)>>

50to1 >> (prediction using sigmoid)

Loss function: Binary cross-entropy with logits

Optimizer: SGD

Learning rate scheduler: OneCycleLR with maximum learning rate of 0.1

Our final results:

Epoch: 100/100... Step: 133400... Loss: 0.08... Val Loss: 0.04 Acc: 97.05... Val Acc: 99.38



