Improvements done:

1.  Without any pretrained embedding:
    a.  SST test dataset accuracy: 0.3701
    b.  SST dev dataset accuracy: 0.3842
    c.  Cfimdb dataset dev accuracy: 0.8490

2.  Using Glove pretrained embedding of dim 300:
    a.  SST test dataset accuracy: 0.4457
    b.  SST dev dataset accuracy: 0.4405
    c.  Cfimdb dataset dev accuracy: 0.9347

3.  Implemented early stopping to reduce training time and regularize the network. Also, mini-batching (with ignoring padded tokens while averaging) was implemented, which increased SST test accuracy from 0.41 to 0.44.

4.  Ran the model 3 times, and the accuracy was stable and within the range of [0.4321, 0.4457] on the SST test dataset.