There are two parts in the program: pre-process and model.

Pre-process:

1. Extend the stop words since the original stop-words is not completed.
2. Remove
 which is html break-line and has nothing to do with the prediction.
3. Remove punctuations including period, comma, single quote and double quote.
4. Remove all stop words.

Model:

1. Get the data from placeholder feed in the format.
2. Feed the data into a single layer LSTM with dynamic RNN: lstm_units=64, default drop_out_rate=0.75.
3. Reshape and calculate together with final weight matrix and bias to get the final output.
4. Define cross entropy with a softmax layer and use Adam optimiser.
5. Other key paras: batch size=32, max words in review=110.

Result:

1. The best result achieved is 0.846 during the training and before converging.
2. Final result is round 0.823.
3. Loss and accuracy trend during training: