Experiment one:

Confusion matrix:

Positive, Neutral, negative:

1.BOW Model:

Test Data:

array([[ 0, 0, 1],

[ 0, 19, 2],

[ 0, 6, 8]]

Train Data:

array([[ 9, 0, 0],

[ 0, 78, 0],

[ 0, 0, 53]],

2. Glove:

Test:

[[ 0 1 1]

[ 0 15 1]

[ 0 7 11]]

Train:

[[ 0 11 0]

[ 0 82 0]

[ 0 47 0]]

3.RNN

Test:

array([[ 0, 0, 4],

[ 0, 16, 6],

[ 0, 0, 10]]

Train:

array([[ 0, 0, 9],

[ 0, 61, 15],

[ 0, 0, 55]], dtype=int64)