

Model 1: 3 Conv with filters size (32, 64, 128)

Test Accuracy: 77.64%

Example: miss cant wait see im happy

Predicted: 0

True Value: 1

Example: lunch dj come eat

Predicted: 0

True Value: 1

Example: perezhilton zach makes pee sitting grown gay man

Predicted: 0

True Value: 1

Example: lucasgo haha hows long time reply

Predicted: 0

True Value: 1

Example: anyone wanted attend tedmed make date happily take place live blog

Predicted: 0

True Value: 1

Example: flatmates still bathroom arggh

Predicted: 0

True Value: 0

Example: tristanwilds missing missing tuesday nights

Predicted: 0

True Value: 0

Example: pamelaong glad blog helped

Predicted: 0

True Value: 1

Example: cubs game today first ever

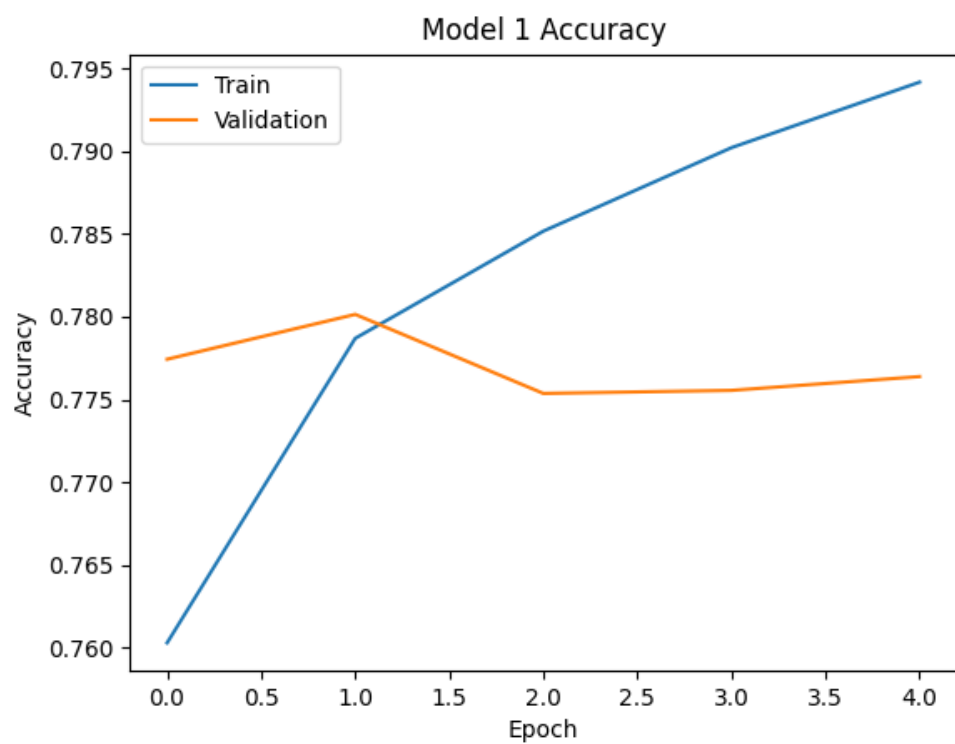
Predicted: 0

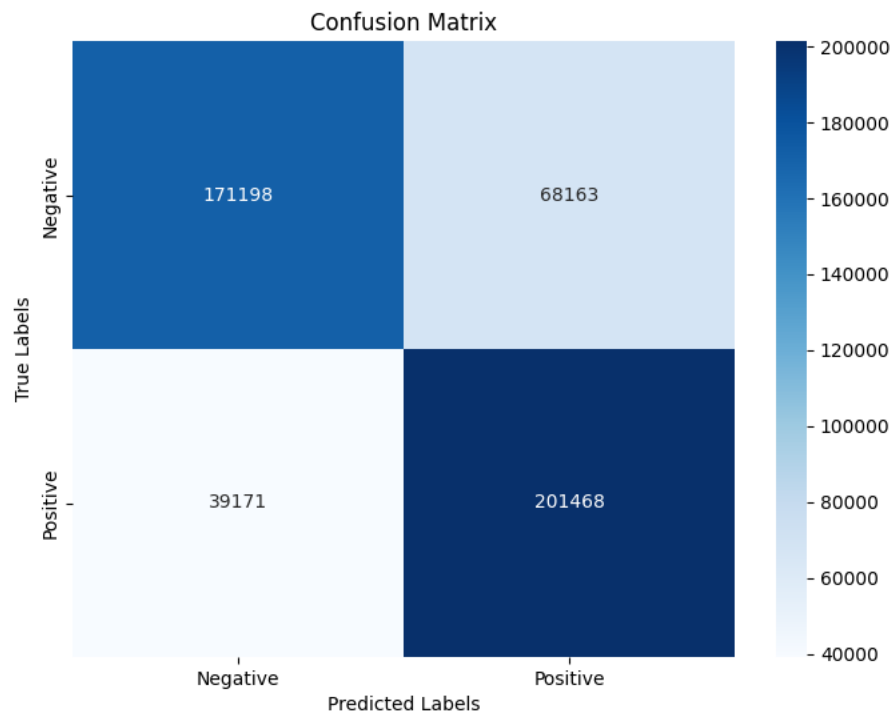
True Value: 1

Example: team_allen jealous yet find local chinese satisfied

Predicted: 0

True Value: 0





Model 2: 2 Conv with filter size 128

Test Accuracy: 77.26%

Example: bit tongue

Predicted: 0

True Value: 0

Example: camillej supposed go live tv happened end would cool bbc

Predicted: 0

True Value: 0

Example: good work

Predicted: 0

True Value: 1

Example: bing siteowner custom search box fail market en au nothing still targets us search australia

Predicted: 0

True Value: 0

Example: feel good
Predicted: 0
True Value: 0

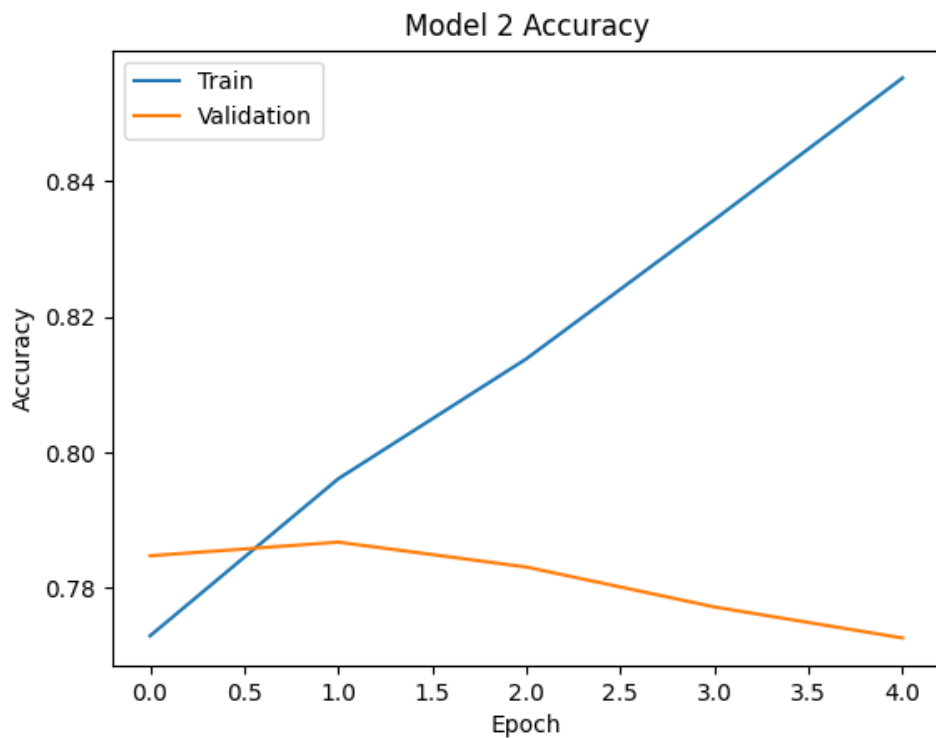
Example: anyone wanted attend tedmed make date happily take place live blog
Predicted: 0
True Value: 1

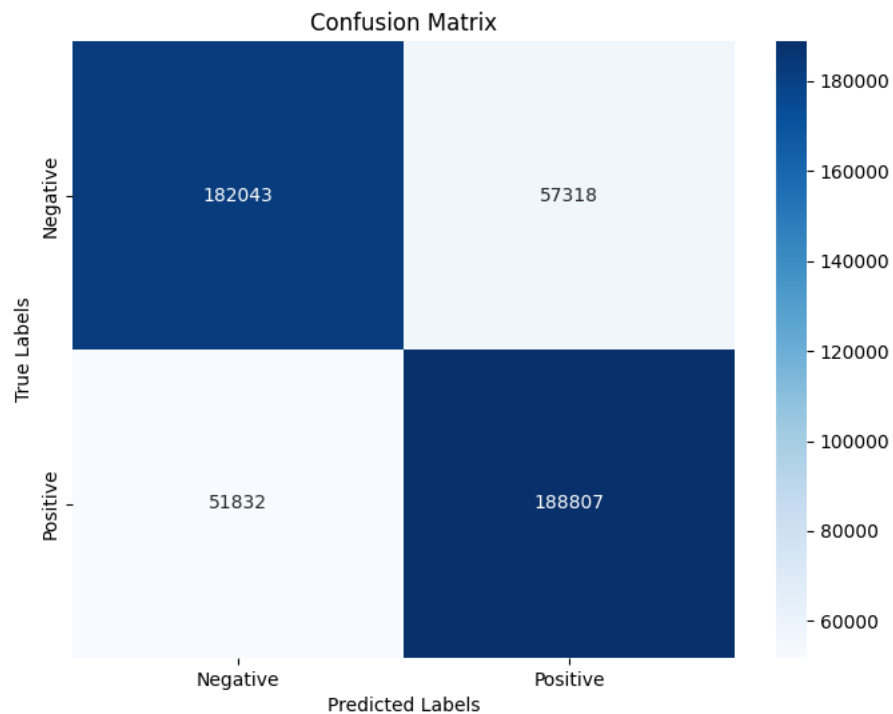
Example: shame name female lol alright shower sleep get like hours
Predicted: 0
True Value: 0

Example: great minds think alike
Predicted: 0
True Value: 1

Example: batyasmusic really reason haha sounds stupid
Predicted: 0
True Value: 1

Example: foprof lol leave kid internet kid stupid things
Predicted: 0
True Value: 1





Model 3: 3 Conv with filter size 128

Test Accuracy: 77.08%

Example: mrstessyman thank glad like product review bit site enjoy knitting

Predicted: 0

True Value: 1

Example: theuncoolest

Predicted: 0

True Value: 1

Example: konstantine said scar sweetie

Predicted: 0

True Value: 1

Example: ugh summer colds worst esp fever top ridic humidity

Predicted: 0

True Value: 0

Example: itsneet like getting classes

Predicted: 0

True Value: 1

Example: lujee seriusuly second one since already mid class dude would work food

Predicted: 0

True Value: 1

Example: woooooork tomorrrrow tuesday

Predicted: 0

True Value: 1

Example: foprof lol leave kid internet kid stupid things

Predicted: 0

True Value: 1

Example: ugh morning rough start

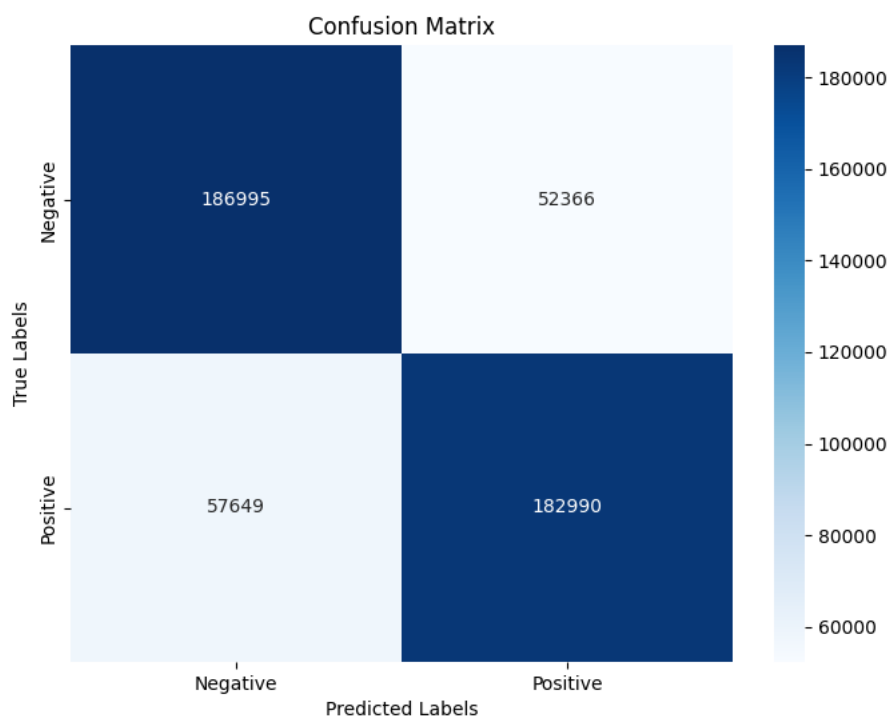
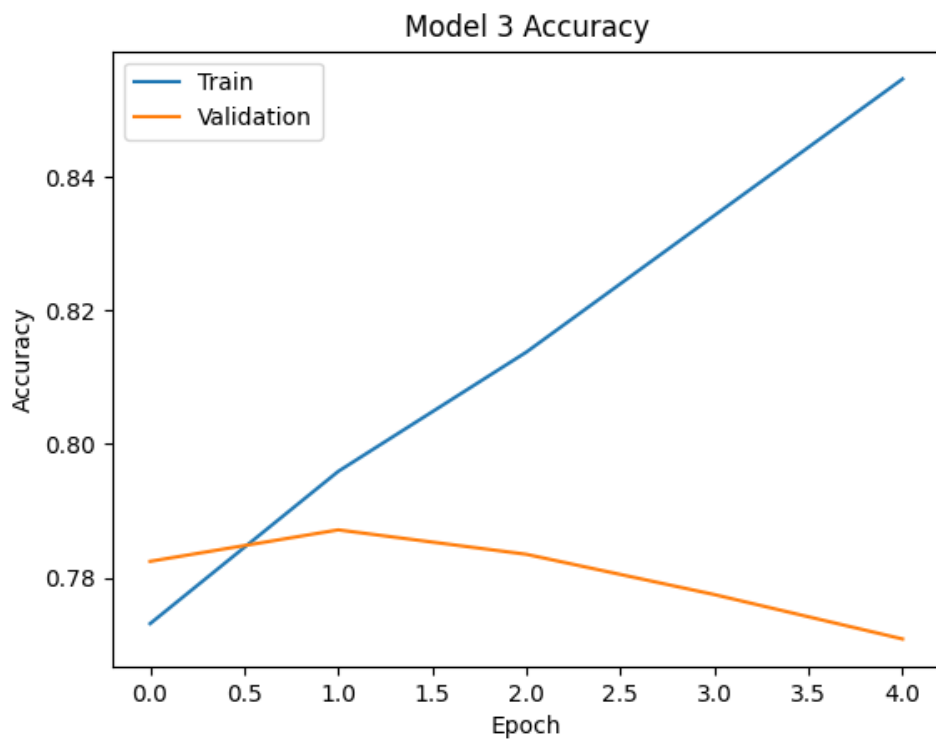
Predicted: 0

True Value: 0

Example: miss cant wait see im happy

Predicted: 0

True Value: 1



Model 4: LSTM

Test Accuracy: 78.43%

Example: night rock star

Predicted: 0

True Value: 1

Example: team_allen jealous yet find local chinese satisfied

Predicted: 0

True Value: 0

Example: batyasmusic really reason haha sounds stupid

Predicted: 0

True Value: 1

Example: bayareacheap r us local yocals around happy find u twitter

Predicted: 0

True Value: 1

Example: watched crank awesome

Predicted: 0

True Value: 1

Example: cubs game today first ever

Predicted: 0

True Value: 1

Example: marqueshouston fugazi patrol motto u see clown point em please let everyone know us

Predicted: 0

True Value: 1

Example: seattle pride june come support community march marriage equality contingent

Predicted: 0

True Value: 1

Example: school email open geography stuff revise stupid school

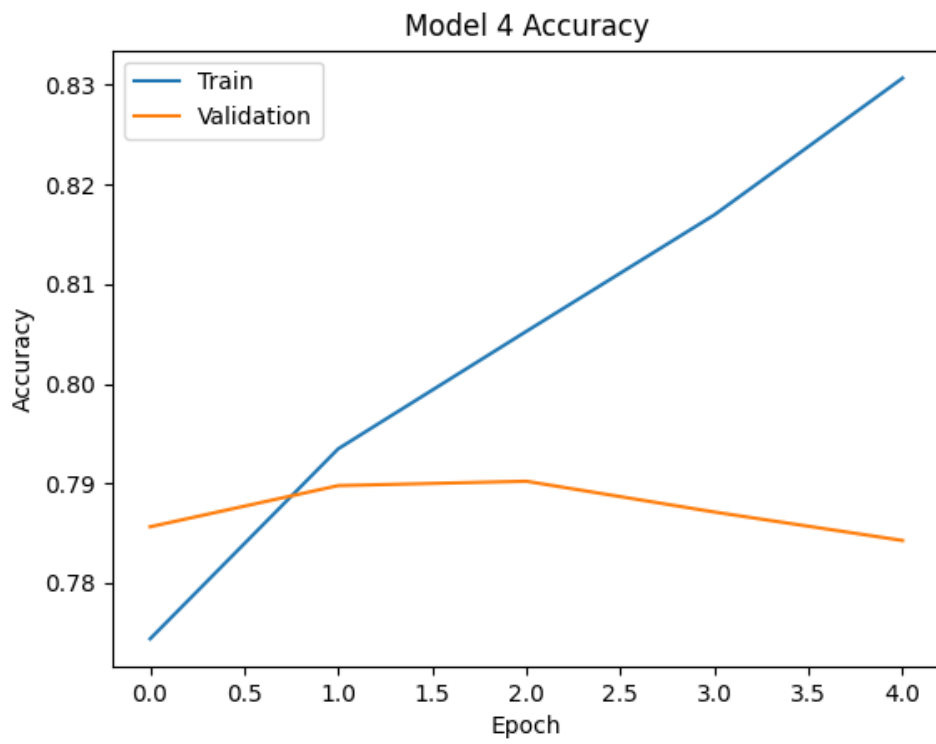
Predicted: 0

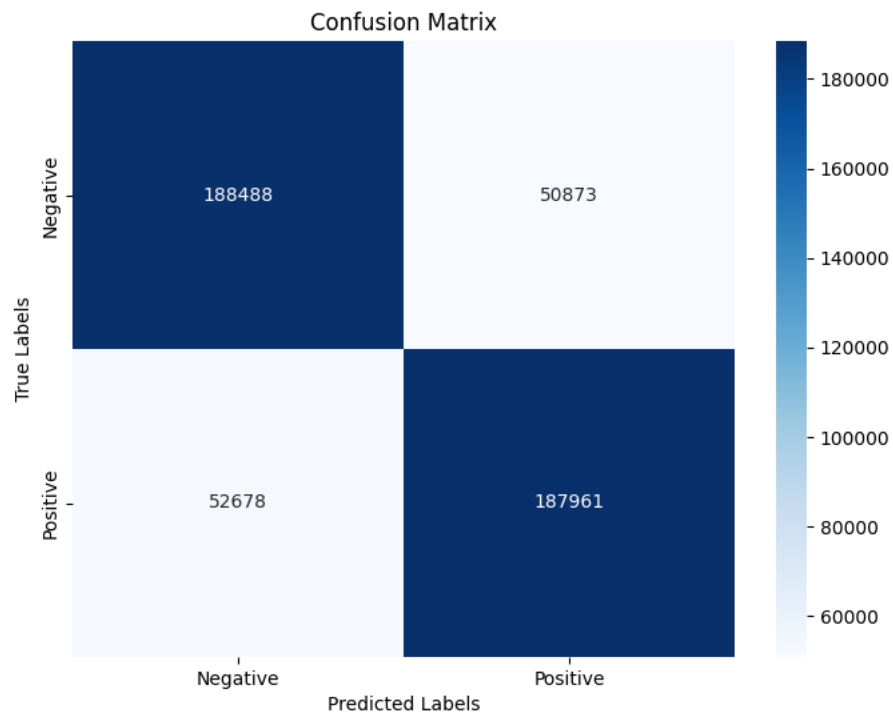
True Value: 0

Example: hands officially tied think time anything anymore includes california meet

Predicted: 0

True Value: 0





Conclusion:

Based on the results, both the CNN and LSTM models achieved similar test accuracies, with the LSTM model slightly outperforming the CNN model. The CNN model demonstrated higher training accuracy and lower training loss, suggesting a better fit to the training data. However, it also showed more significant overfitting, as evidenced by a larger increase in validation loss during training. In contrast, the RNN model exhibited better generalization to unseen data, with slightly higher validation accuracy and lower validation loss compared to the CNN model.