

# CAP5415 - COMPUTER VISION

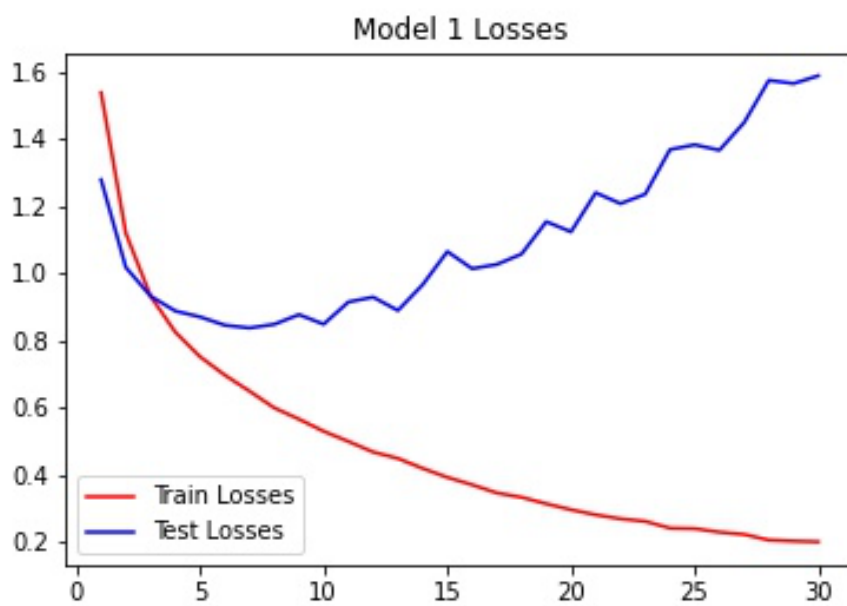
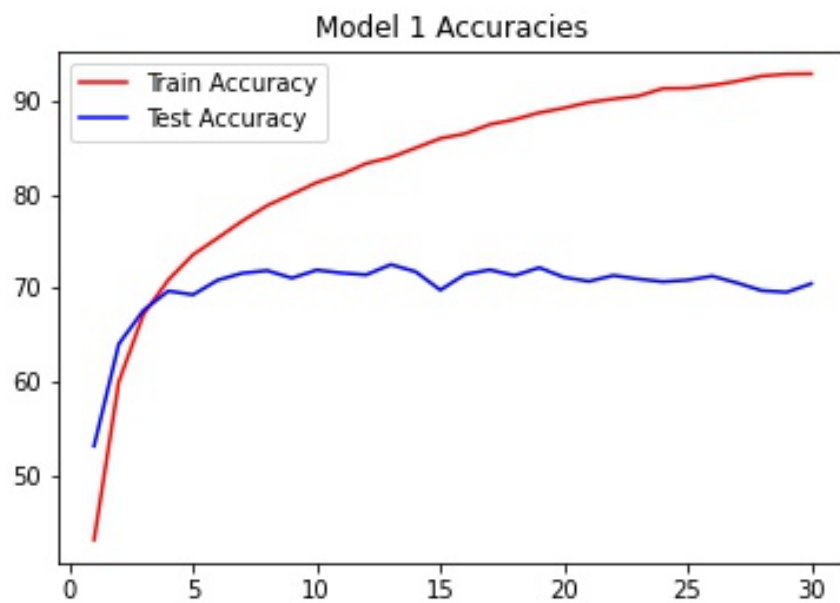
## Programming assignment 4

PRUDVI KAMTAM  
UCFID: 5498416

Model 1:

Conv layers: 3 (followed by 3 Maxpool layers)

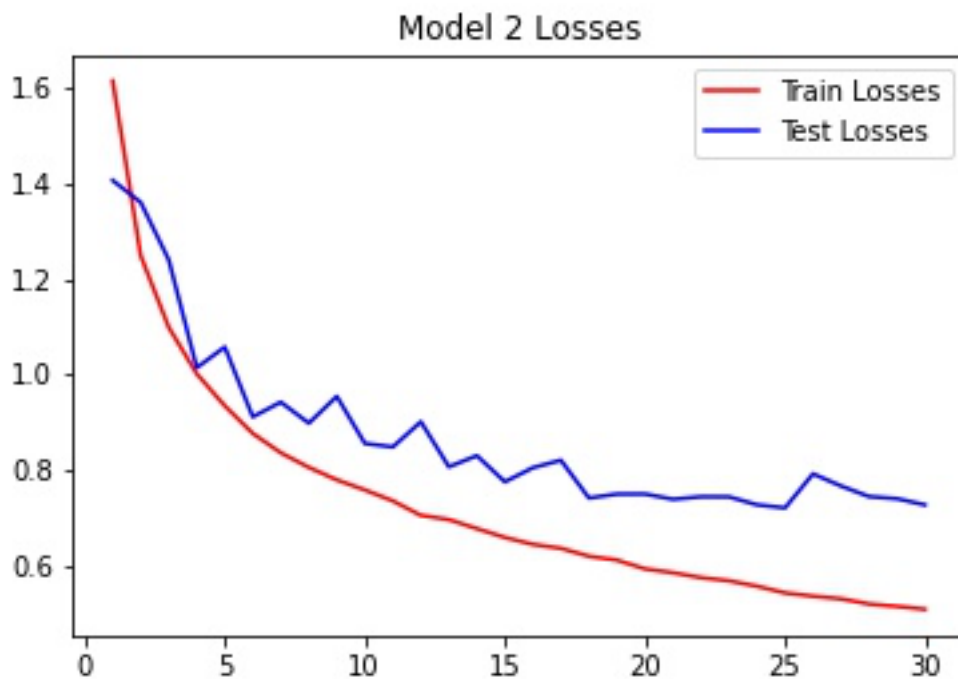
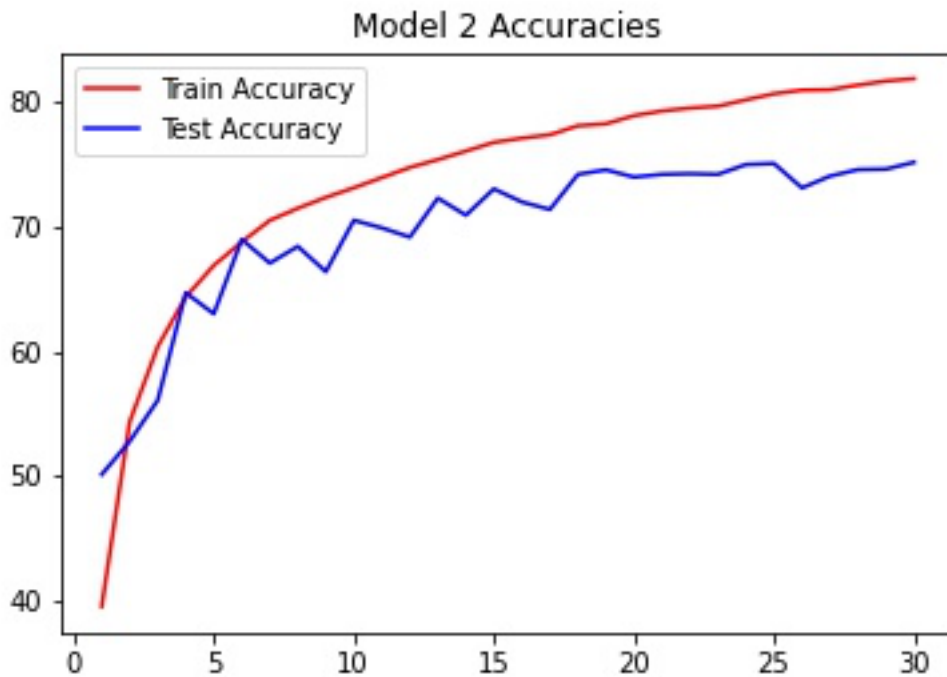
FC layers: 3 (not followed by Softmax because using CrossEntropy Loass)



Model 2:

Conv Layers: 5 (followed by maxpool layers, also added dropout 50% and batch norm)

FC Layers: 3



### Summary:

- Model 1 is clearly overfitting because while the train accuracy is improving the test accuracy has stalled
- The test loss of model 1 has drastically gone up compared to the training loss
- Model 2 is also slightly overfitting but thanks to the dropout layer (0.5) and the batch normalization layer, the model was able to normalize.
- In model 2 the train and test losses and accuracies follow a similar pattern and hence we can say that it's not overfitting like model 1.