

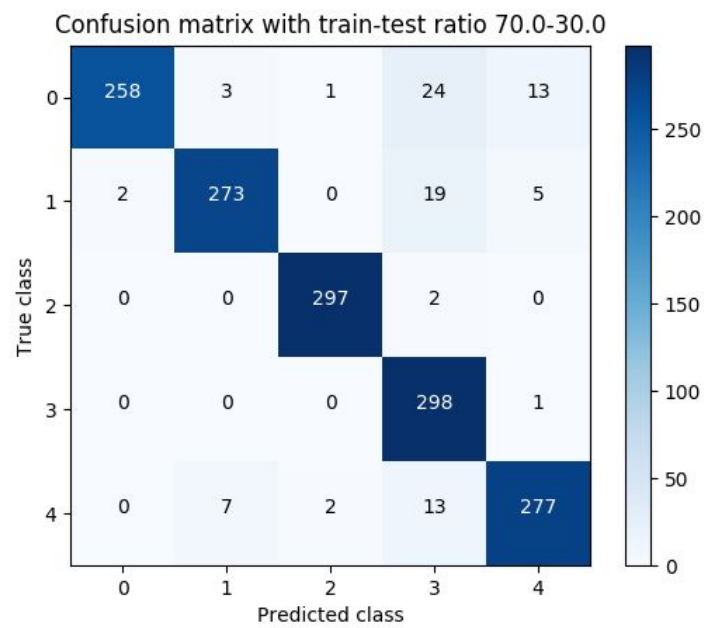
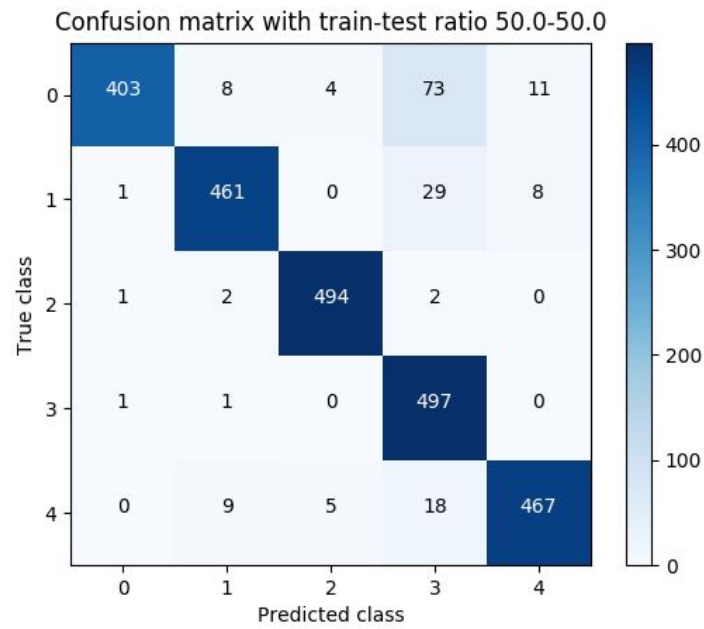
### IR : Assignment 3

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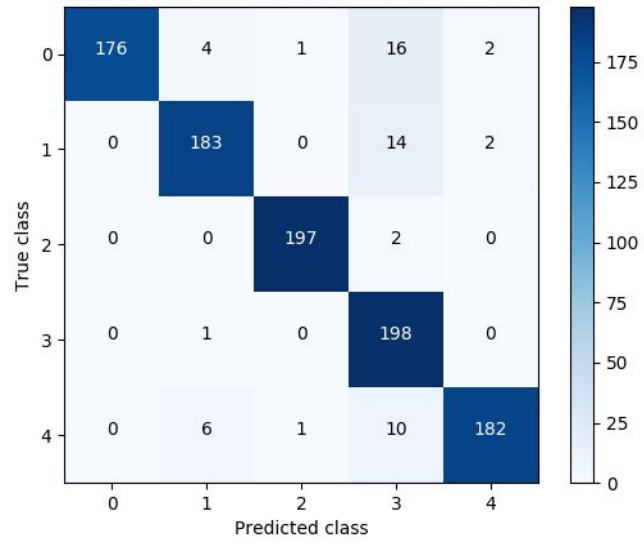
The accuracies decrease as the training to test set ratio is increased. This is because the model gets to see lesser training data and hence, fails to generalize over a larger set of unseen samples.

| Train-test ratio | Accuracy(%)   |
|------------------|---------------|
| 90-10            | 94.1414141414 |
| 80-20            | 94.0703517588 |
| 70-30            | 93.8461538462 |
| 50-50            | 93.0661322645 |

The confusion matrices are attached below.



Confusion matrix with train-test ratio 80.0-20.0



Confusion matrix with train-test ratio 90.0-10.0

