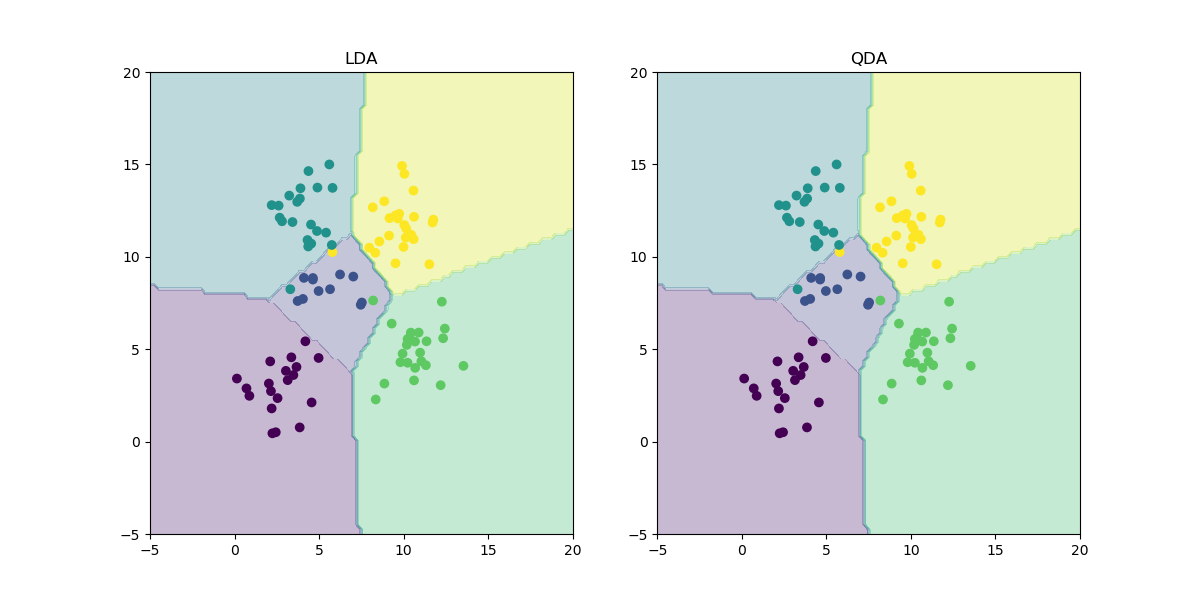
CSE 474 Assignment 2

# Team Members

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## Group No – 33

Problem 1)



Accuracy Observed for LDA = 97%

Accuracy Observed for QDA = 97%

Conclusion: In LDA for different k the covariance matrix is identical, so it allows the classifier to be linear. But for QDA the decision boundary is caused by the quadratic function.

Problem 2)

MSE without intercept on testing data= 106,775.36155

MSE with intercept on testing data= 3707.84018

MSE without intercept on training data= 19,099.44684

MSE with intercept on training data= 2187.16029

Conclusion: The data with the intercept is better, by 96% for the testing data. And 88.5% better for the training data.

Problem 3)