**Machine Learning Quiz**

**Dataset Link:** https://raw.githubusercontent.com/skathirmani/datasets/master/credit-default.csv

* Using credit card default data set, try building models using following techniques to predict if a customer will default the loan or not
  + Decision trees
  + Random forest (part of bagging)
  + Ada boost (part of boosting)
  + KNN
  + Naive Bayes
* Note: In default column -> class 1 – default, class 2 – not default
* For decision trees atleast use hyper parameter tuning to decide on optimal max depth. Use GridSearchCV
* Report the following measures in a data frame
  + Plot the ROC curve for all the models together
  + Show AUC, Accuracy, Sensitivity for each model in the respective legend
* Report the model that you will be choosing with proper justification

Note: Use random\_state=100 for splitting data in to training (70%) and testing. Also use random\_state=100 while building models