#### Classification Assignment

Problem Statement or Requirement:

A requirement from the Hospital, Management asked us to create a predictive model which will predict the Chronic Kidney Disease (CKD) based on the several parameters. The Client has provided the dataset of the same.

1.) Identify your problem statement

Machine Learning

Supervised

classification

2.)Tell basic info about the dataset (Total number of rows, columns)

25columns and 400rows

3.)Mention the pre-processing method if you're doing any (like converting string to number – nominal data)

Below are the pre-processing column to convert string to nominal data

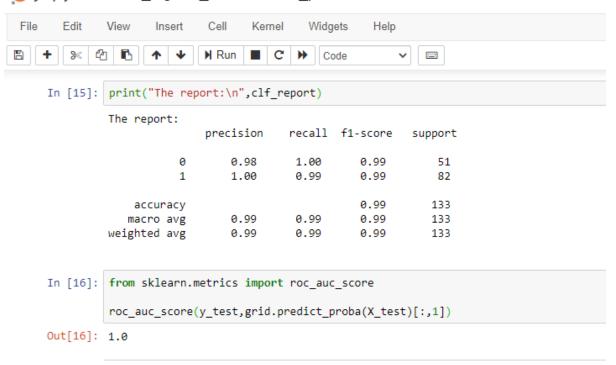
rbc\_normal', 'pc\_normal', 'pcc\_present', 'ba\_present', 'htn\_yes', 'dm\_yes', 'cad\_yes', 'appet\_yes', 'pe\_yes', 'ane\_yes', 'classification\_yes'

4.) Develop a good model with good evaluation metric. You can use any machine learning algorithm; you can create many models. Finally, you have to come up with final model.

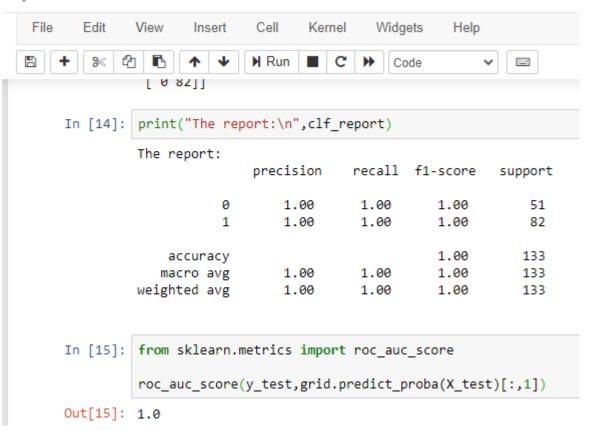
SVM grid is the final model.

5.)All the research values of each algorithm should be documented. (You can make tabulation or screenshot of the results.)

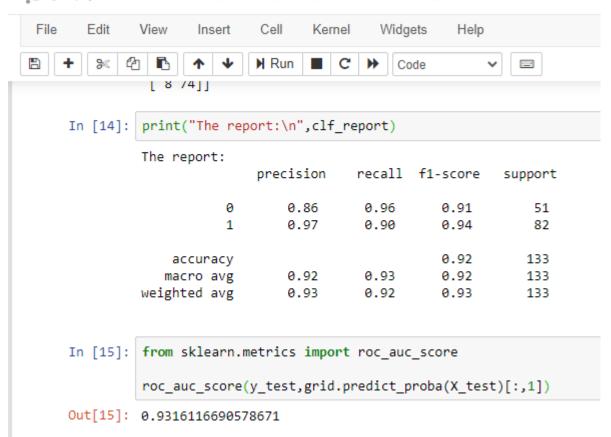
#### Jupyter Grid\_logistic\_classification\_phase1 Last Checkpoint: 26 minutes ago (autosaved)



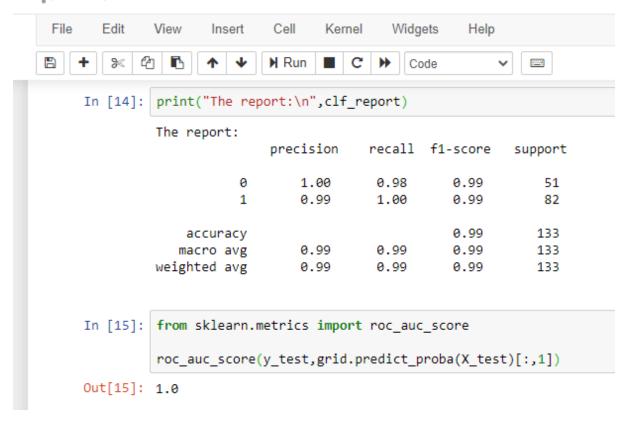
### Jupyter SVM\_Grid\_classification\_phase1 Last Checkpoint: an hour a



# Jupyter Decision\_Tree\_Grid\_classification\_phase1 Last Checkpoin



## Jupyter Random\_Forest\_Grid\_classification\_phase1 Last Checkpo



6.) Mention your final model, justify why u have chosen the same.

SVM grid is the final model. Because most of the parameters are 1.0.