Sushmita Pal  
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CSE- 3

PYTHON

LAB PROGRAM

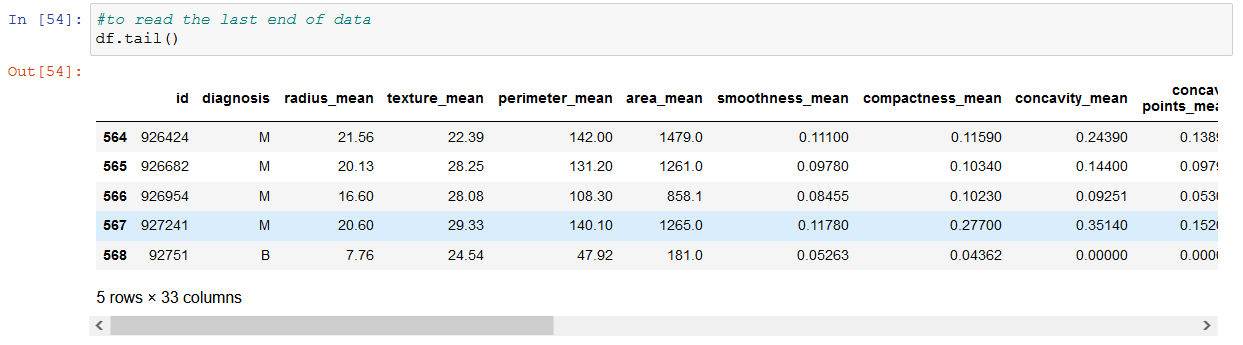
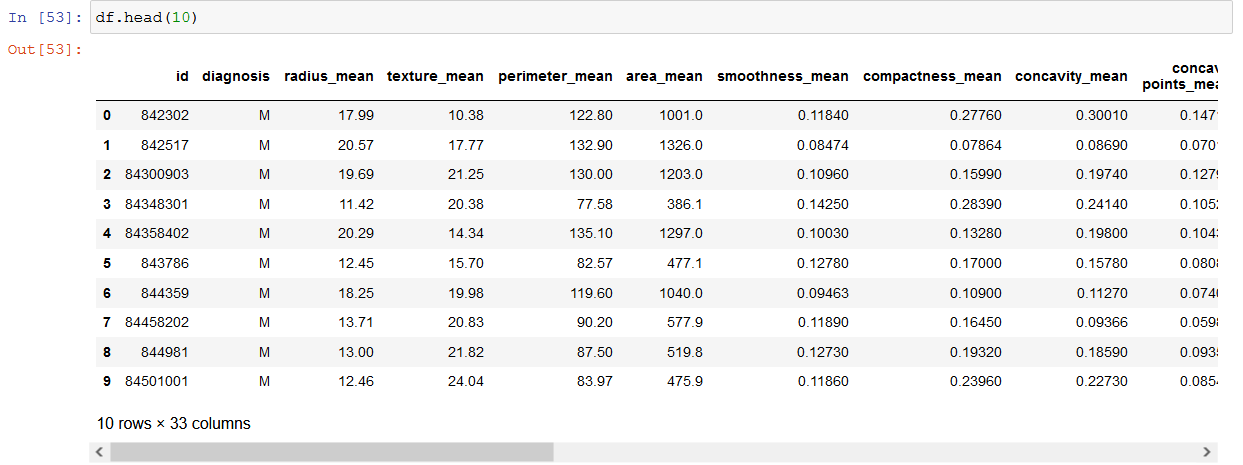
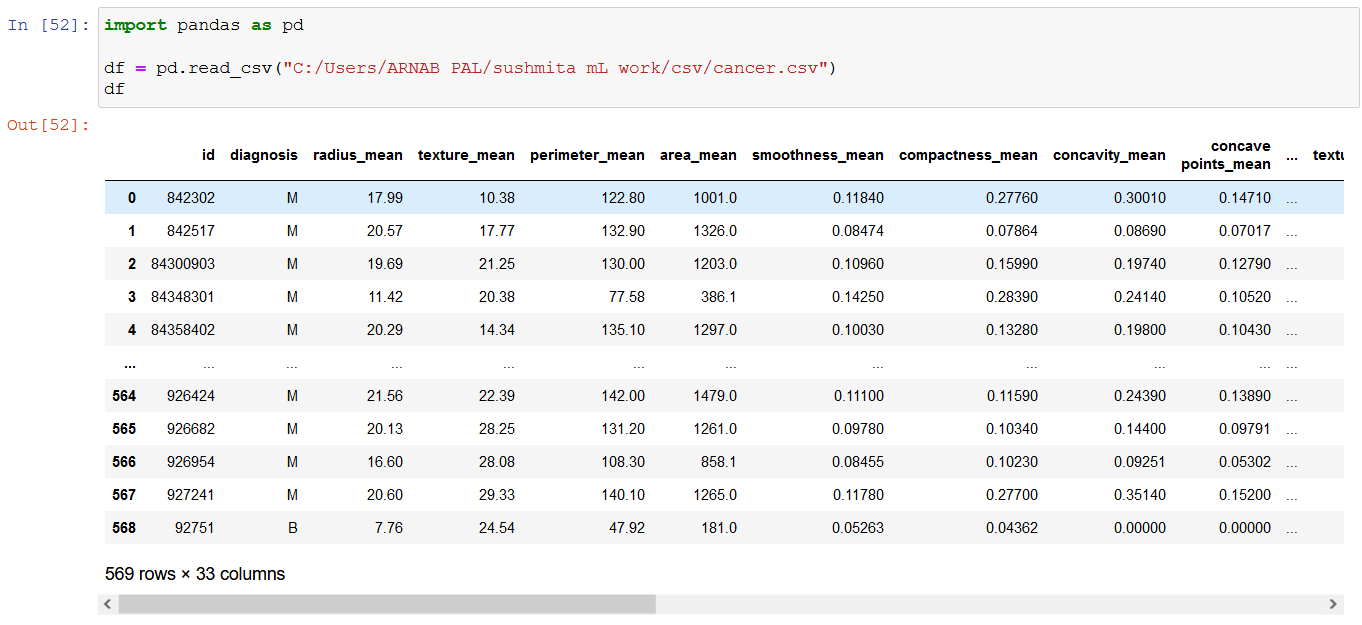
Submission -2

Github link : [LAB Program - 2](https://github.com/sush096/ML-Assignments/blob/main/LAB%20PROGRAM%20-2.ipynb)

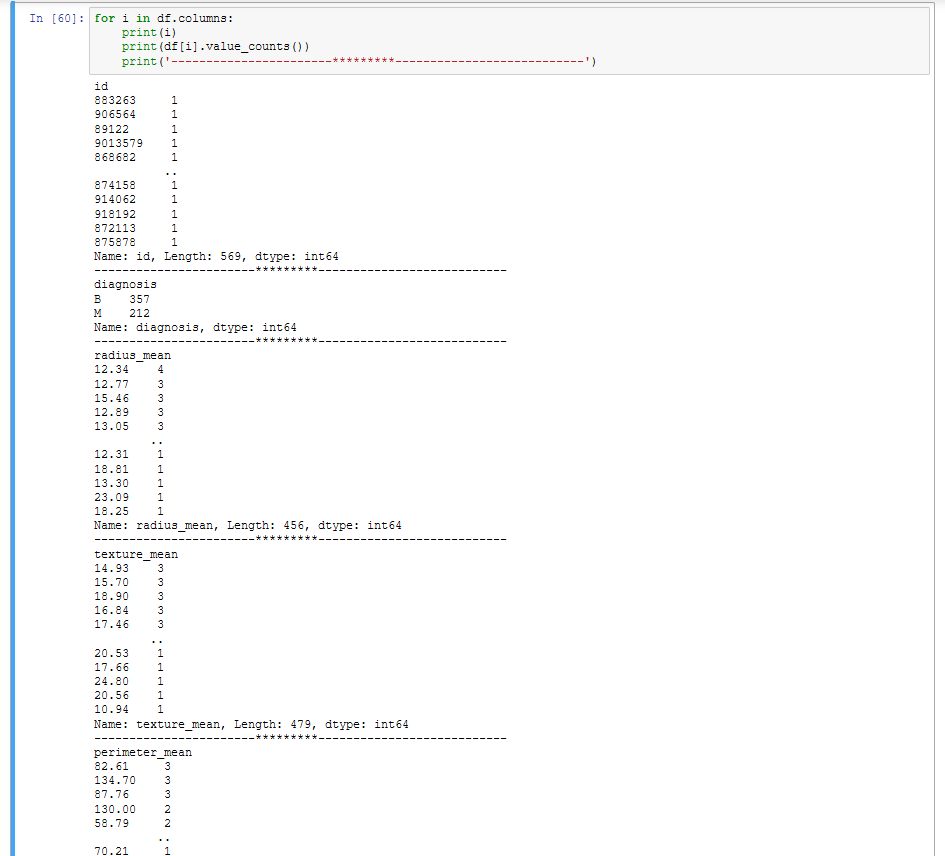
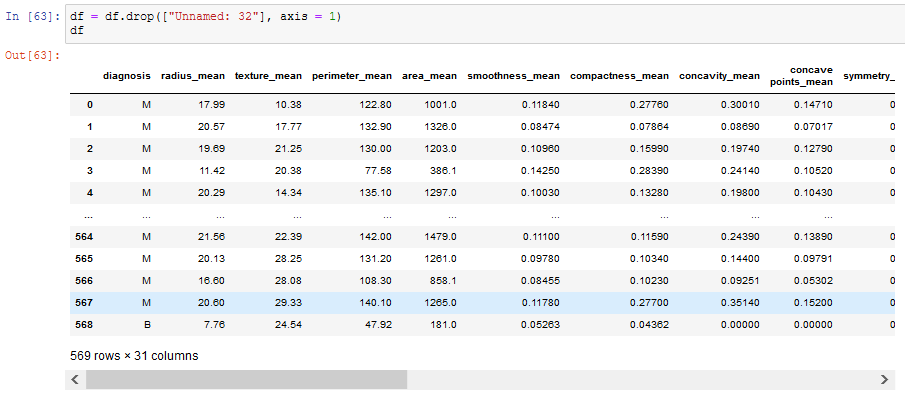
**PROBLEM STATEMENT** - Implementation of decision tree on a breast cancer dataset using sklearn in python.

**Program Code Snippet**

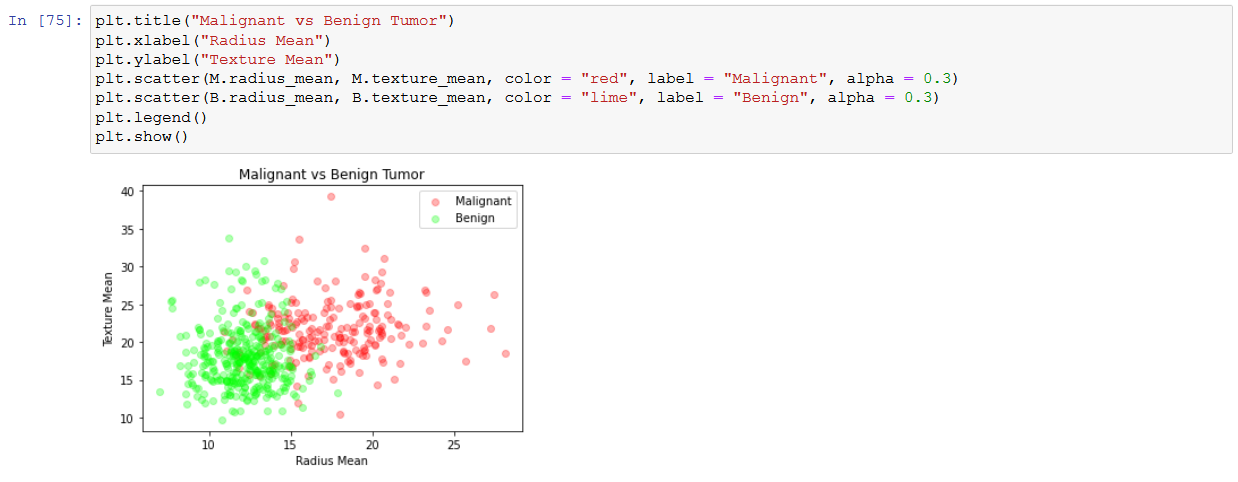
**Loading Dataset**



**Preprocessing/Cleaning of dataset**

**Visualization**



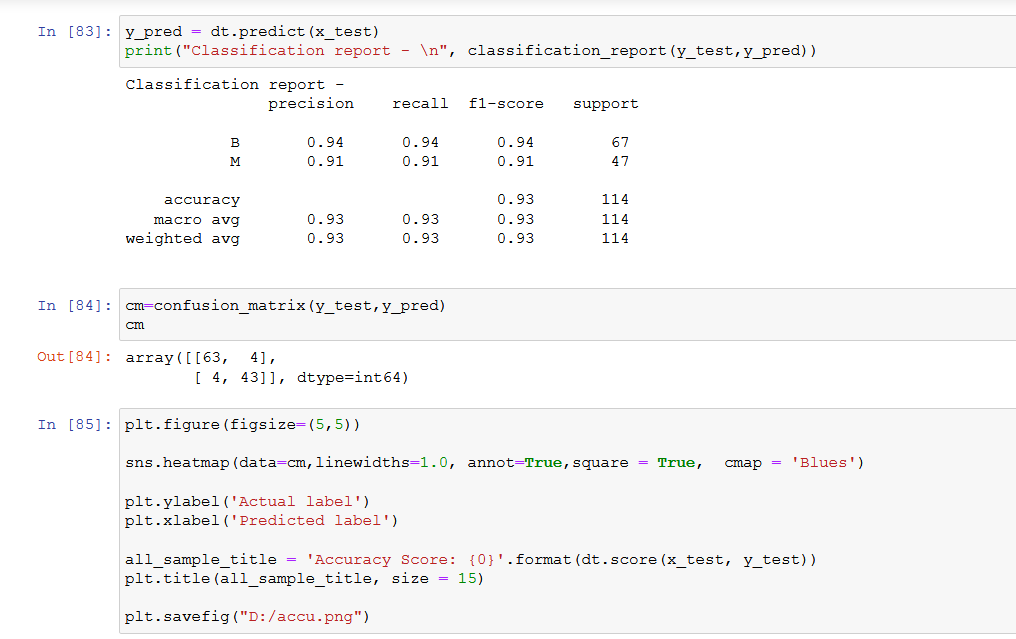
**ML algorithm implementation of prediction or comparison**

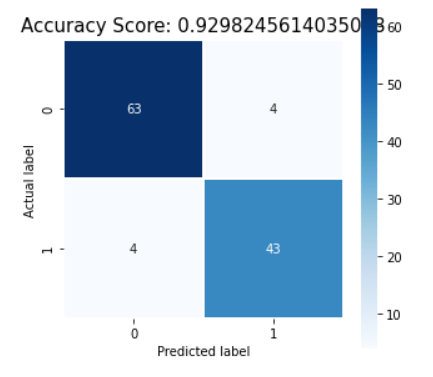
Decision tree models where the target variable uses a discrete set of values are classified as Classification Trees. In these trees, each node, or leaf, represent class labels while the branches represent conjunctions of features leading to class labels.

A decision tree where the target variable takes a continuous value, usually numbers, are called Regression Trees. The two types are commonly referred to together at CART (Classification and Regression Tree).



**ROC/AUC/Confusion matrix**





**Final graphA screen shot of a computer

Description automatically generated with medium confidence**