**Gurkirat Singh**

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**CSE-1**

**EXPERIMENT-3**

# AIM:

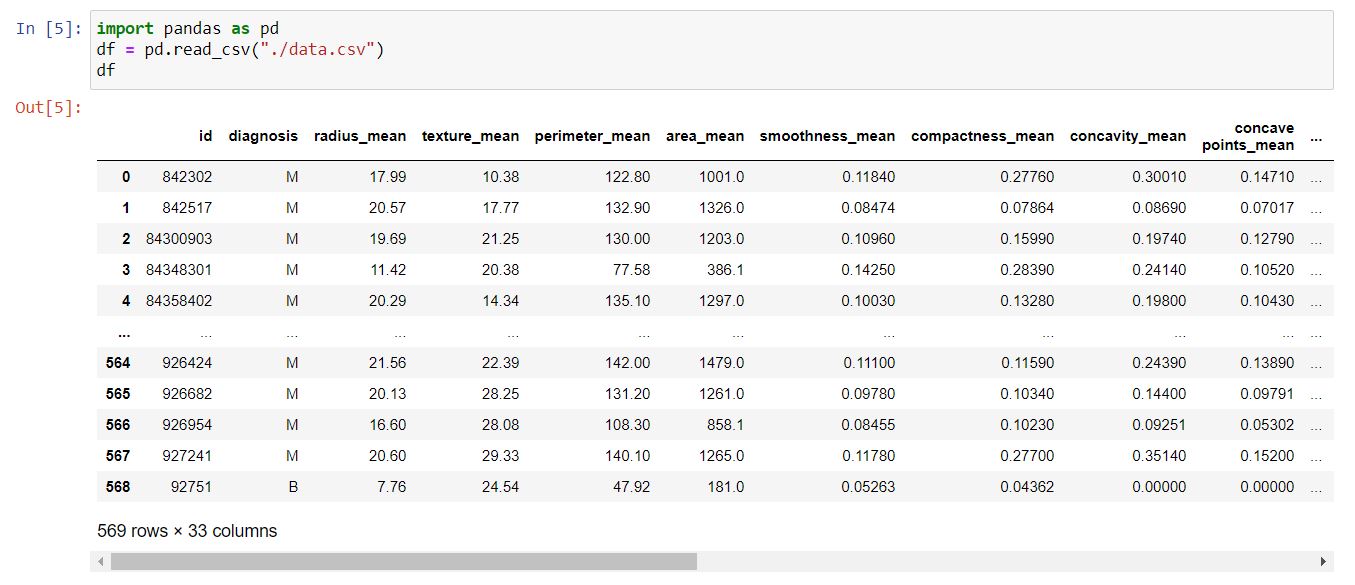
Estimate the accuracy of decision classifier on breast cancer dataset using 5 fold cross validation.

# ALGORITHM:

1. Select the best attribute using Attribute Selection Measures (ASM) to split the records.
2. Make that attribute a decision node and breaks the dataset into smaller subsets.
3. Starts tree building by repeating this process recursively for each child until one of the conditions will match:
   1. All the tuples belong to the same attribute value.
   2. There are no more remaining attributes.
   3. There are no more instances.

# PROGRAM CODE SNIPPET:

## LOADING DATA SET:



## PREPROCESSING:











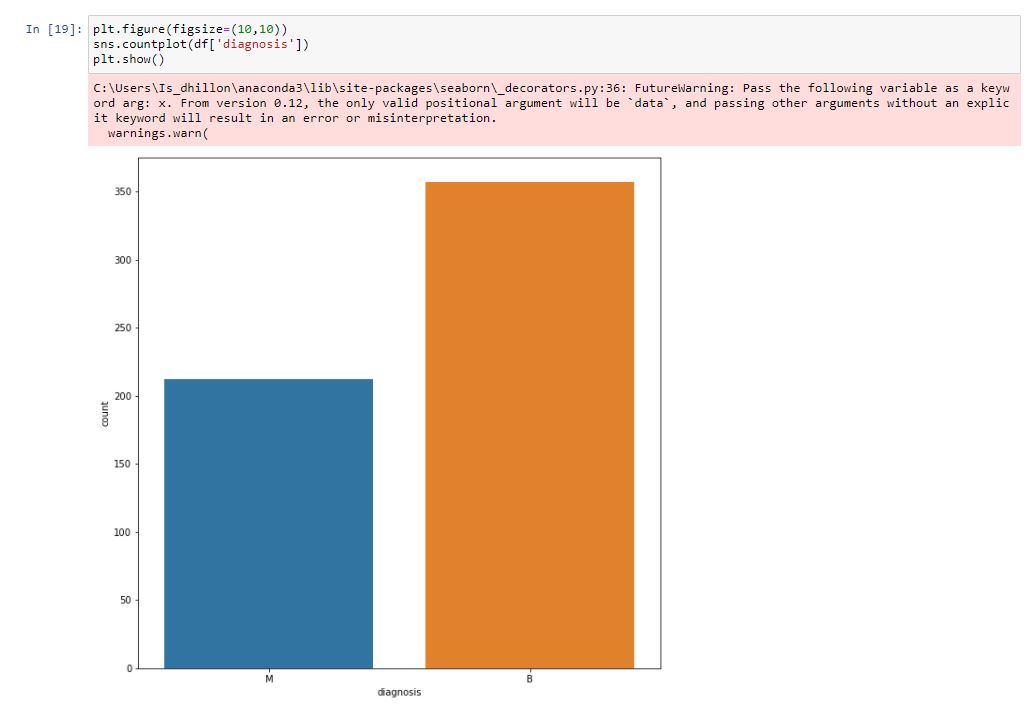






## VISUALIZATION:



















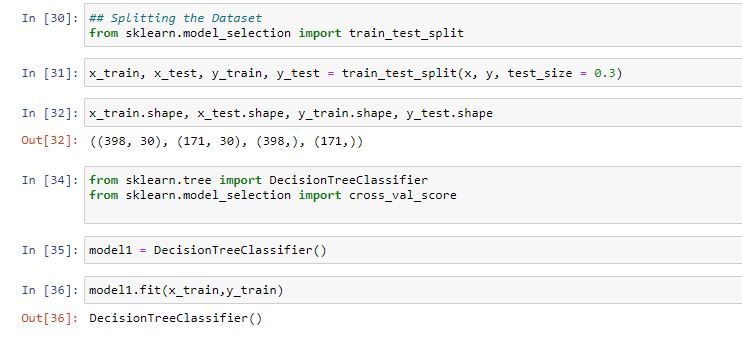


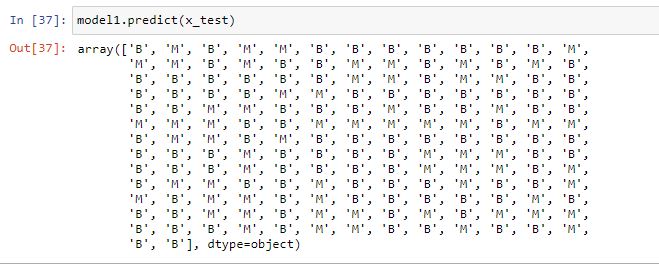


## ML ALGORITHM IMPLEMENTATION:

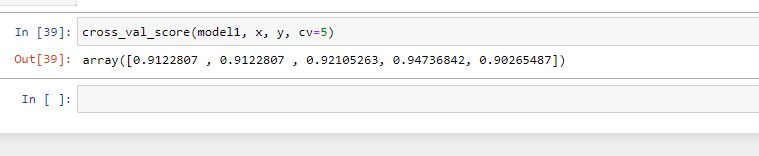








## FINAL RESULT:



# GITHUB LINK:

<https://github.com/gurkiratsingh-1/ML_Assignment_Gurkirat/blob/main/LAB/lab_program3.ipynb>