MACHINE-LEARNING

ASSIGNMENT-1

Question 2: Bayesian classifier

GROUP-22
G. Heamanth Rao
T. Sai Sahan

Code has three parts:

3. Train_B_bayesian.csv

The given dataset has the following variables as follows:

Age
Gender
Tot_bilirubin
Direct_bilirubin
Tot_proteins
Albumin
Ag_ratio
Sgpt
Sgot
Alkphos
Is_patient

Procedure followed:

For 70:30 splits

Final result:

```
      age  gender  tot_bilirubin  ...  sgot  alkphos  is_patient
0      65       1            0.7  ...   3.3     0.90            1
1      62       2           10.9  ...   3.2     0.74            1
2      62       2            7.3  ...   3.3     0.89            1
3      58       2            1.0  ...   3.4     1.00            1
4      72       2            3.9  ...   2.4     0.40            1
..    ...     ...            ...  ...   ...      ...          ...
578    60       2            0.5  ...   1.6     0.37            2
579    40       2            0.6  ...   3.2     1.10            1
580    52       2            0.8  ...   3.2     1.00            1
581    31       2            1.3  ...   3.4     1.00            1
582    38       2            1.0  ...   4.4     1.50            2

[583 rows x 11 columns]
accuracy percentage

0.6477272727272727
accuracy percentage after laplace
0.6477272727272727

Process finished with exit code 0
```