

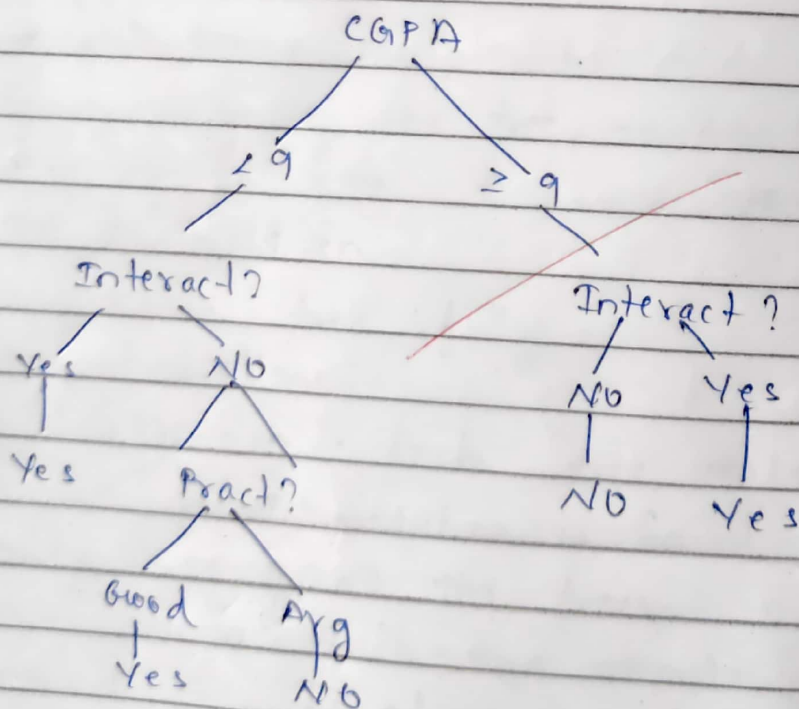
7/5/25

LAB-7

Random Forest

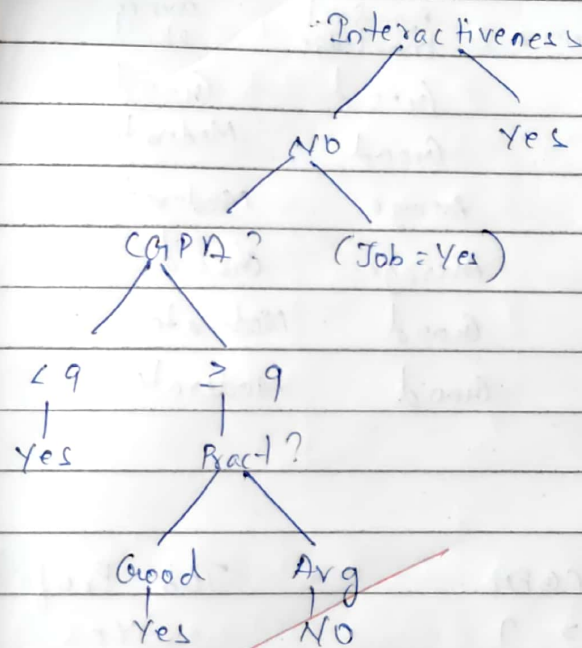
For sample S1 shown, draw the Decision tree considering CGPA as root node.

S.No	CGPA	Interactiveness	Comm skills	Prac knowledge	Job offer
1	≥ 9	Yes	Good	Good	Yes
2	< 9	No	Moderate	Good	Yes
3	≥ 9	No	Moderate	Average	No
4	≥ 9	No	Moderate	Average	No
5	≥ 9	Yes	Moderate	Good	Yes



For sample S2 shown, draw the Decision tree considering Interactiveness as root node.

S.No	CGPA	Interactiveness	Comm Skills	Prac knowledge	Job offer
2	< 9	No	Moderate	Good	Yes
3	≥ 9	No	Moderate	Average	No
3	≥ 9	No	Moderate	Average	No
5	≥ 9	Yes	Moderate	Good	Yes
5	≥ 9	Yes	Moderate	Good	Yes



Q For "iris-csv" dataset

what is the best accuracy score and confusion matrix of the classifier you observed and using how many trees?

A

- Best accuracy score: 1.00
- No. of trees for best score: 1
- Confusion matrix:-

$\begin{bmatrix} 19 & 0 & 0 \end{bmatrix}$

$\begin{bmatrix} 0 & 13 & 0 \end{bmatrix}$

$\begin{bmatrix} 0 & 0 & 13 \end{bmatrix}$