

Step 1:- create Data subsets

- Randomly sample from the original dataset to create multiple new training sets
- Each dataset has same size.

Step 2:- Build multiple decision trees

- For each ~~dataset~~ dataset a decision tree is constructed
- The tree is grown recursively splitting the data

Step 3:- Make predictions of each tree

- Once the trees are trained make predictions based on data given
- For classification each tree outputs a class label and class with most votes becomes the prediction of random forest
- For regression each tree output numerical value final value is the average of individual tree predictions

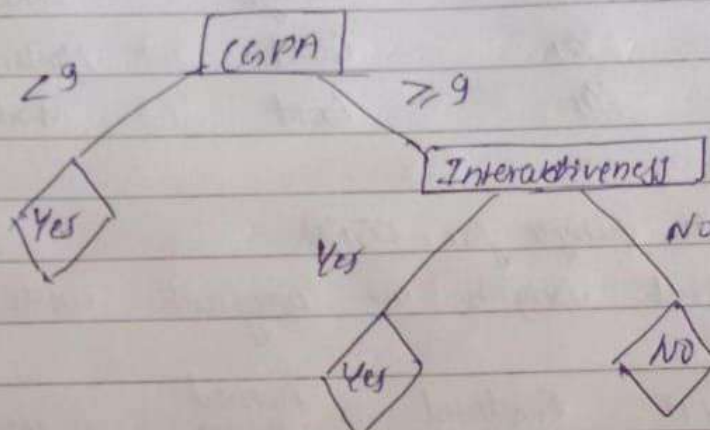
Step 4:- Aggregate results

- For classification class predicted most trees is selected as final prediction
- For regression all outputs from trees are averaged to get final output

*Signature*  
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Draw decision tree considering CGPA as root node

S.No	CGPA	Interactiveness	Communication	Practical knowledge	Job offer
1	$\geq 9$	Yes	Good	Good	Yes
2	$< 9$	No	Moderate	Good	Yes
3	$\geq 9$	No	Moderate	Average	No
4	$\geq 9$	No	Moderate	Average	No
5	$\geq 9$	Yes	Moderate	Good	Yes



Draw decision tree considering interactiveness as root node

