Split the data Using best column and best split value got from above step

returns the bestsplit by calculating entrophy on specified number of randomly picked column and value (best column and best split value of that column)

returns the bestsplit by calculating entrophy on whole potential split dict (best column and best split value of that column)

if randomSplits == None

Returns a dictionary having columns and values will be having average of two records

currentDepth += 1

returns the class label with the highest count

if checkPurity(data) or len(data) < minSampleSize or currentDepth == maxDepth:

Do Nothing

Selecting random columns

Take whole dataset

randomAttributes != None and <= len(COLUMN\_HEADERS) - 1

Current\_depth == 0

start

Explain’s the prediction through human understandable sentence and visualization techniques

Contains the dictionary of all splits

Append yes and no answer to dict created in step 2 and return once it reaches the leaf (once it reaches leaf go n return all dict so it will create a nested dictionary of best column and best value

decisionSubTree = yesAnswer

if yesAnswer == noAnswer

1. Create a string question havine column and split value
2. Create a dictionary having the question created in step 1
3. Create the two branches for question (I,e yes and no) and recursively iterate it and go on creating dictionary
4. Stop once this condition satisfies “checkPurity(data) or len(data) < minSampleSize or currentDepth == maxDepth”

returns the class label with the highest count

if len(dataBelow) == 0 or len(dataAbove) == 0

Split the data Using best column and best split value got from above step