Correct answer!

Review your last 10 questions

3 days, 1 hour remaining until quiz ends.

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Your Stats	
Not attempted questions(Timed out)	0
Skipped questions	0
Correct questions	5
Incorrect questions	5
Marked Ambiguous	0
Total Questions	230

1/10

While bootstrapping, if we have n samples and we are splitting it in m samples per subset. What is the chances of 1 sample to be present in a subset.

- $(1-1/n)^n$
- $(1-1/n)^m$
- $(1/n)^n$
- $(1/n)^m$

Correct

2/10

A dataset following a continuous distribution can be helped to find the ___

- Probability mass function
- Probability density function
- Both 1 and 2
- None of the above

Incorrect

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3/10

A data scientist was working on a multiple regression project. He trained a linear regression and found that his model is not performing well.

He thinks that his data can have correlated features. To know that his data contains correlated features then which of the following metrics can help him to know that?

- p value
- R2
- Adjusted R2
- variance inflation factor

Incorrect

4/10

Which of the following numpy functions returns indices of the resulting elements?

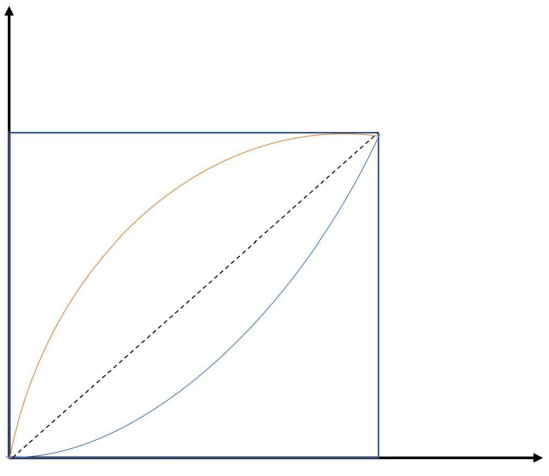
```
1. np.nonzero()

2. np.extract()

3. np.where()
```

- 1, 3
- 2, 3
- 1, 2
- All of the above

Correct

5/10

Amy built a binary classifier and constructed an AUC-ROC curve for the same. The horizontal axis is true positive rate whereas the vertical axis is false positive rate. The curve is given below. Further the area under this curve is 0.2.



Which of the following represents the ROC curve for Amy's model?

- Dotted black line

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- Blue curve
- Orange curve
- None of the above

Correct

6/10

Suppose we have two variables X and Y. The correlation coefficient for these variables is r. While recalculating the value of coefficient of correlation, a value of 9 gets mistakenly added to all the values of variable X. Further, a value of 3 gets subtracted from all values for variable Y. What will be the effective change in r:

- It will be reduced by a factor of 6
- It will be reduced by a factor of 12
- There will be no change
- Cannot be determined without relevant values

Incorrect

7/10

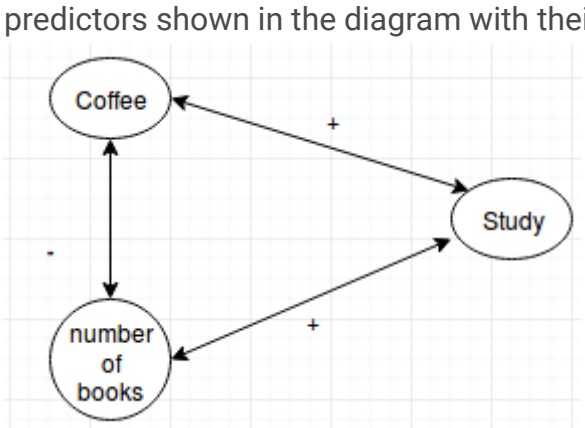
Training time of decision trees is _____ than neural network algorithm

- Faster
- Slower
- Equal
- Cannot say

Incorrect

8/10

Janet is given a project of predicting a student's study level, with the help of two predictors shown in the diagram with their respective correlation relationships.



Coffee and the number of books are showing a negative correlation while coffee and study time is showing a positive relationship. The number of books and study time is also showing a positive relationship. When Janet saw the relationship between

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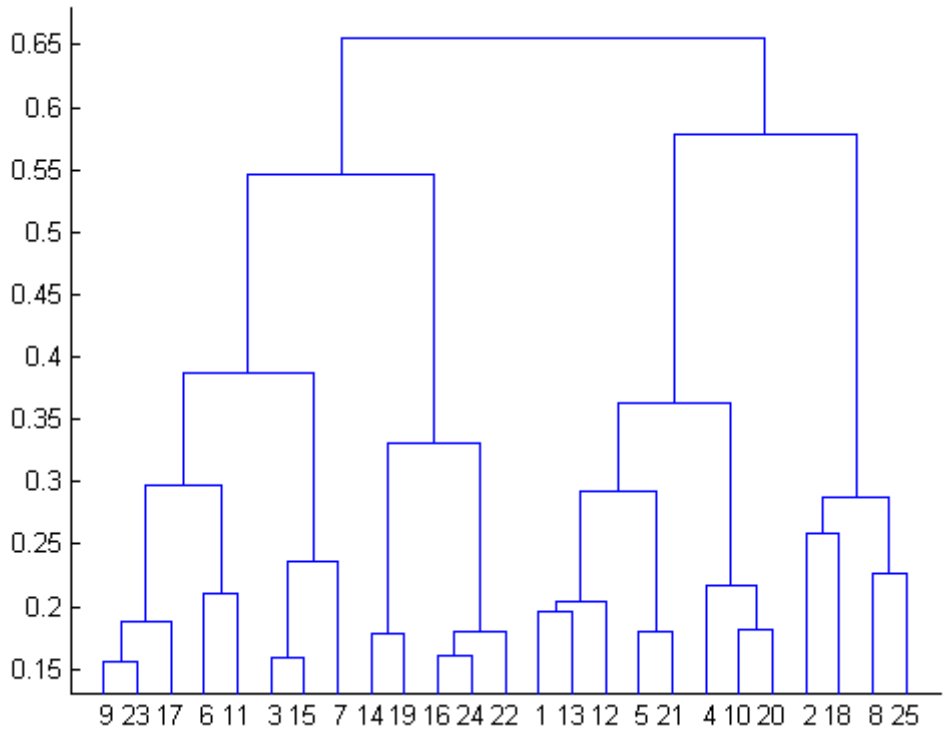
dependent variables, she omitted the number of books variable from the model. How will the coefficient estimates change in comparison to a model with both the variables?

- It will decrease
- It will increase slowly
- It will increase drastically
- No effect

Incorrect

9/10



By looking at the above dendrogram which of the following can be true about k-medoids algorithm ?

- Number of clusters are 3
- Number of variables are 23
- Number of clusters are 7
- None of the above

Correct

10/10

Which of the following is true for Decision trees?

- Feature standardisation is done to optimise Decision Tree model.
- We do not perform feature standardisation.
- Feature standardisation can be done only on training data.
- Feature standardisation can be done only on test data.

Correct

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Suggested reading

Comprehensive & Practical Inferential Statistics Guide for data science

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