Correct answer!

Review your last 10 questions

5 days, 4 hours remaining until quiz ends.

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Your Stats	
Not attempted questions(Timed out)	3
Skipped questions	0
Correct questions	5
Incorrect questions	2
Marked Ambiguous	0
Total Questions	70

1/10

In KNN algorithm, first K nearest points are calculated, then result is calculated accordingly. In case of classification we use ____1____ of K neighbors for selecting the final value whereas for regression we use ____2____ for final value.

- mode,mean
- mode,median
- mean,mean
- median,mode
- both 1 and 2

Incorrect

2/10

A data science intern was working on SVM algorithm, he decided to apply the algorithm on some dataset to predict whether a person has cancer or not. After the analysis, he saw that his training and test error were low. What can be done to avoid such situation.

- Increase data points
- Decrease datapoints
- Increase the number of features

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- Decrease the number of features

Incorrect

3/10

Given the following code, can this be used to classify a dataset having 4 classes?

```
clf=LogisticRegression()

clf.fit(X,Y)
```

- Yes
- No, logistic regression is not applicable for multi class classification
- No, we have to add `multi_class` hyperparameter to `ovr` value
- none

Correct

4/10

Sahil wrote the following code. Select the correct option.

```
clf=LogisticRegression(C=-0.5)
```

- use inverse of regularization value as 0.5
- use regularization value as 0.5
- error
- use inverse of regularization value as -0.5

Correct

5/10

Which of the following option is true?

- LDA explicitly attempts to model the difference between the classes of data. PCA on the other hand does not take into account any difference in class.
- Both attempt to model the difference between the classes of data.
- PCA explicitly attempts to model the difference between the classes of data. LDA on the other hand does not take into account any difference in class.
- Both don't attempt to model the difference between the classes of data.

Correct

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6/10

Janet is working with a marketing company which has collected some customers data. Janet has been given the task to check some hypotheses formulated by the company. When working, she conducted the t-test and f-test simultaneously. She found that the T-value for individual slopes are not significant, while the f-test comes out to be significant. What can be the case?

- F-test may be misleading the results
- The overall significance can be low
- Collinearity between parameters can be present
- None

Not attempted

7/10

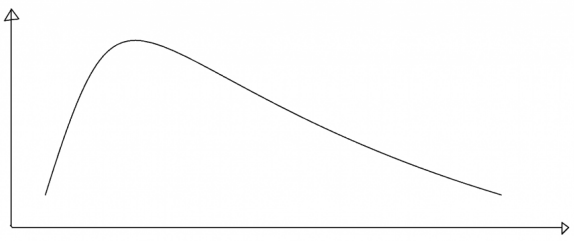
Which of the following is true for stochastic gradient descent algorithm (SGD)?

- It is an iterative algorithm
- It is a probabilistic or randomized algorithm
- Both a and b
- None of the above

Correct

8/10

Before a natural disaster, assume that, a country X had a right skewed population with mean approximately equal to 45. Below is a graph of age(x axis) vs frequency(y axis).



After the natural calamity on a large scale, how do you think the graph will be affected?

- The graph will stay normalised but the mode will decrease
- the graph will become left skewed a little
- the graph will become right skewed a little

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- Can't say

Not attempted

9/10

Given a series ser as follows

```
0     97
1     48
2     49
3     10
4     50
5     54
6     35
7      4
8     12
9     50
10    30
11    37
12    94
13    68
14    27
dtype: int64
```

How can you find the position of the 2nd largest value greater than the mean?

```
1. np.argwhere(ser > ser.mean())[1]
2. x=np.where(ser > ser.mean())
ser[x[0][1]]
3. x=ser[ser.argsort()>ser.mean()]
ser[x[1]]
```

- Only 1
- 1 and 2
- 2 and 3
- 1, 2 and 3

Not attempted

10/10

James is a statistics student studying the concept of interval estimation. He collected a dataset of heights of the students in his school.

Let random variable X be the heights of the students. The height of the students in school follows a normal distribution with a variance of 25 cm. Answer the questions based on the given information. A sample of 200 was taken with mean 167 and variance 24.8 cm.

If the sample size is reduced by 4 times than its original size, then what will be the effect on the margin of error.

- It will be increased 4 times
- It will be decreased 4 times
- It will be increased 2 times
- It will be decreased 2 times

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Correct

Suggested reading

Extracting Right Variables For Your Regression Model

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