Correct answer!

Review your last 10 questions

5 days, 1 hour remaining until quiz ends.

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Your Stats	
Not attempted questions(Timed out)	3
Skipped questions	1
Correct questions	4
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Marked Ambiguous	0
Total Questions	90

1/10

A random variable X follows a binomial distribution. The number of trials(denoted by n) and the probability of success in a single trial(denoted by p) are 4 and 1/3 respectively. Let Y =X/n

The variance of Y is

- 1/18
- 2/18
- 8/18
- 4/18

Not attempted

2/10

H(null): μ =3

H(alternate): μ<3

p=0.027

α= 2.8%

Now the H(alternate) is changed to μ≠3.

What is the value of p?

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- p=0.027
- p<0.027
- p>0.027
- p=0.054

Not attempted

3/10

A person initialized TSNE using the following code snippet:

>>> TSNE(n_components=2, random_state=0)

Why do we need to initialize random state as 0?

- It ensures that TSNE always considers 0 as the initial point
- Since TSNE is a randomized algorithm, it ensures that same result is obtained on multiple runs
- There is no need to initialize the random state here
- None of the above

Correct

4/10

What's the Z-score for a sample mean=50, population standard deviation= 7, X=6?

- -6.533
- -6.286
- -7.291
- 1.882

Skipped

5/10

```
Akhil defined a multilayer perceptron to classify an email as spam or not-spam. Complete Akhil's code to compile the model:

model.compile(optimizer=`sgd`, loss=___?___)
```

- `mean_squared_error`
- `binary_crossentropy`
- `categorical_crossentropy`

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- `mean_absolute_error`

Correct

6/10

A product is produced in the three factories in Delhi, Mumbai, and Bangalore. It is known that the factory in Delhi produces thrice as many items as the factory in Mumbai and that the factories in Mumbai and Bangalore produce the same number of items. It is known that 3% of the items produced by each of the factories in Delhi and Bangalore are defective while 5% of those manufactured by the factory in Mumbai are defective. All the items produced in the three factories are stocked, and an item is selected at random.

If the selected item is found to be defective, what is the probability that the item was produced in Delhi?

- 5/17
- 6/17
- 9/17
- 11/17

Incorrect

7/10

What will be the output of the following code:

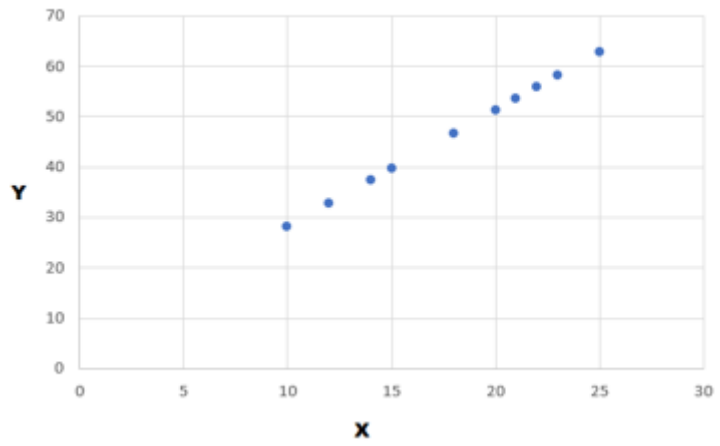
```
import numpy as np
x = np.array([6,3,7,4,6,9,7])
arr = [2, 4, 6]
print(x[arr])
```

- [2 4 6]
- [7 6 7]
- ValueError
- None of the above

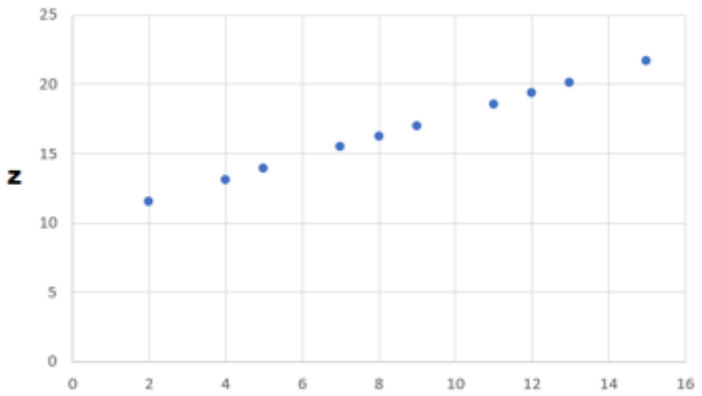
Correct

8/10

Graph 1:



Graph 2:

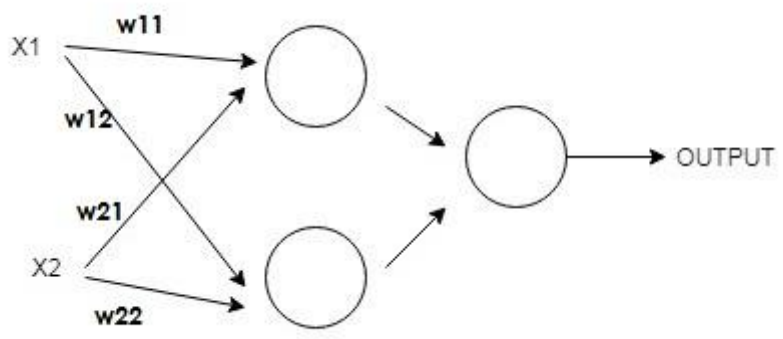


You are given three random variables X, Y and Z, from the following graph, you can see the correlation between X and Y and Y and Z. Using the given graphs, what can you say about the correlation between X and Z.

- X and Z will have positive correlation
- X and Z will have negative correlation
- X and Z have no correlation
- X and Z can have any type of correlation

Not attempted

9/10



A data scientist trained a neural model but initialised the weights(w11, w12, w21, w22) as zero and b as [2]. What can be said about these two neurons.

- They will work symmetrically in first iteration and then non symmetrically.
- They will work symmetrically in for all iteration.
- They will work non-symmetrically in first iteration and then symmetrically.
- They will work non-symmetrically in for all iteration.

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Incorrect

10/10

Which of the following is the default join operation for pd.merge?

- outer
- inner
- left
- right

Correct

Suggested reading

A Complete Tutorial to Learn Data Science with Python from Scratch

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