

Review your last 10 questions

3 days, 2 hours remaining until quiz ends.



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Your Stats	
Not attempted questions(Timed out)	2
Skipped questions	0
Correct questions	3
Incorrect questions	5
Marked Ambiguous	0
Total Questions	170

1/10

If we see logistic regression as a neuron in neural network then which of the following activation function is used to give outputs ?

- Identity
- Relu
- Softmax
- Sigmoid

Correct

2/10

In a decision tree problem, the value for the depth of the tree to get the optimum performance of the model is coming out to be `n` after several tests. Since the data is an imbalanced data, and it is a need for the model to increase the correct predictions for the majority values. How should the depth of the tree should be changed?

- Increase
- Decrease
- No change
- Cannot be determined

Not attempted

3/10

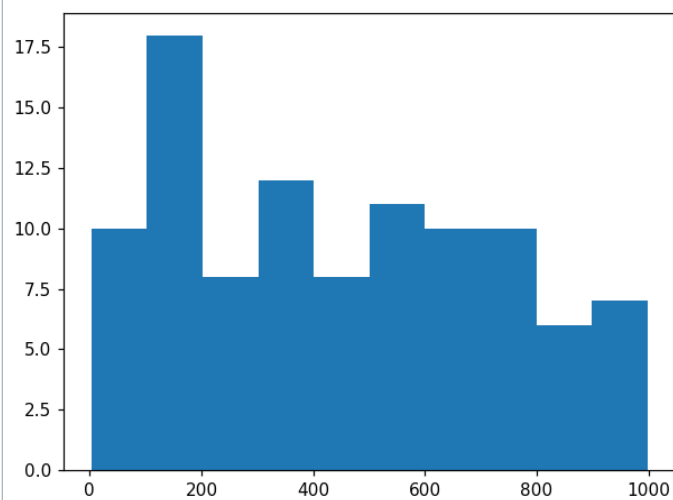
A model used to solve a binary classification problem(classification into 1 or 0), classifies an unseen datapoint as 1 and returns the class label. What kind of model is this?

- Interpretable
- **Black-box model**
- None of the above

Correct

4/10

Complete the code to display the following plot:



```
import matplotlib.pyplot as plt

from random import sample

data = sample(__1__(1, 1000), 100)

plt.__2__(data)

plt.__3__()
```

- 1 - list
2 - bar
3 - show
- **1 - range
2 - hist
3 - show**
- 1 - range
2 - hist
3 - display
- 1 - list
2 - bar
3 - display

Correct

5/10

The scientists at NASA claim that a huge asteroid is bound to crash onto Earth and will destroy the whole planet and all life forms will be extinct in the year 2025. The scientists at North Korean Space Authority strongly disagree and claim that their prediction that it will crash in 2025 is not correct.

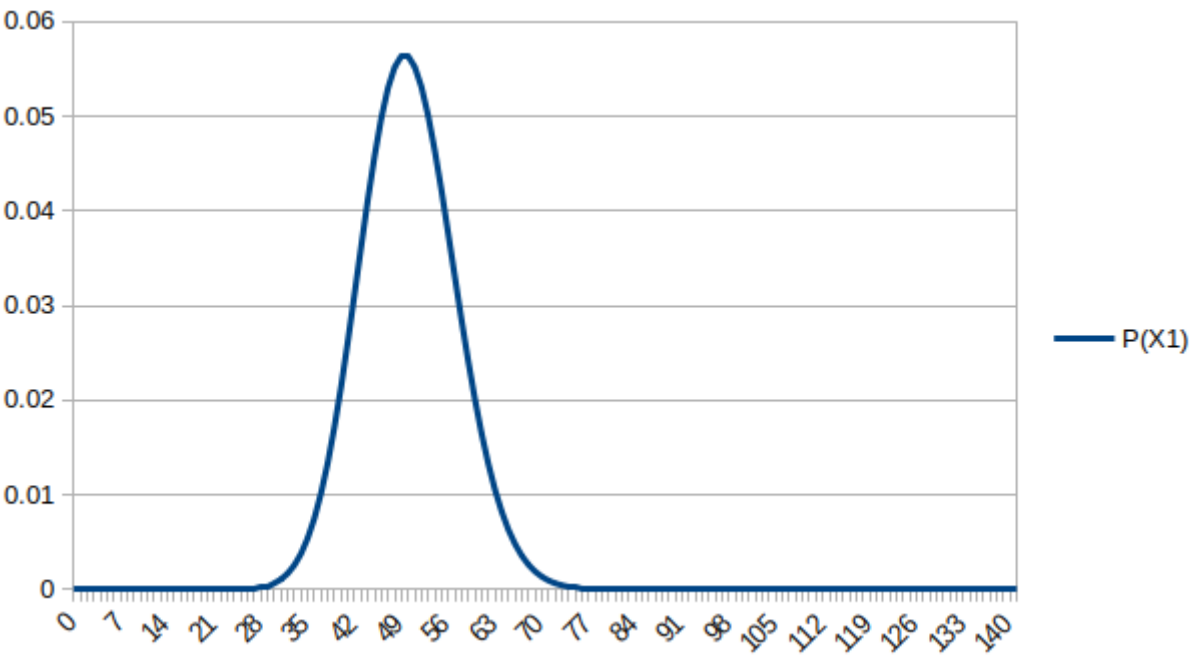
What will be the null and alternate hypothesis in this case according to North Korean scientists?

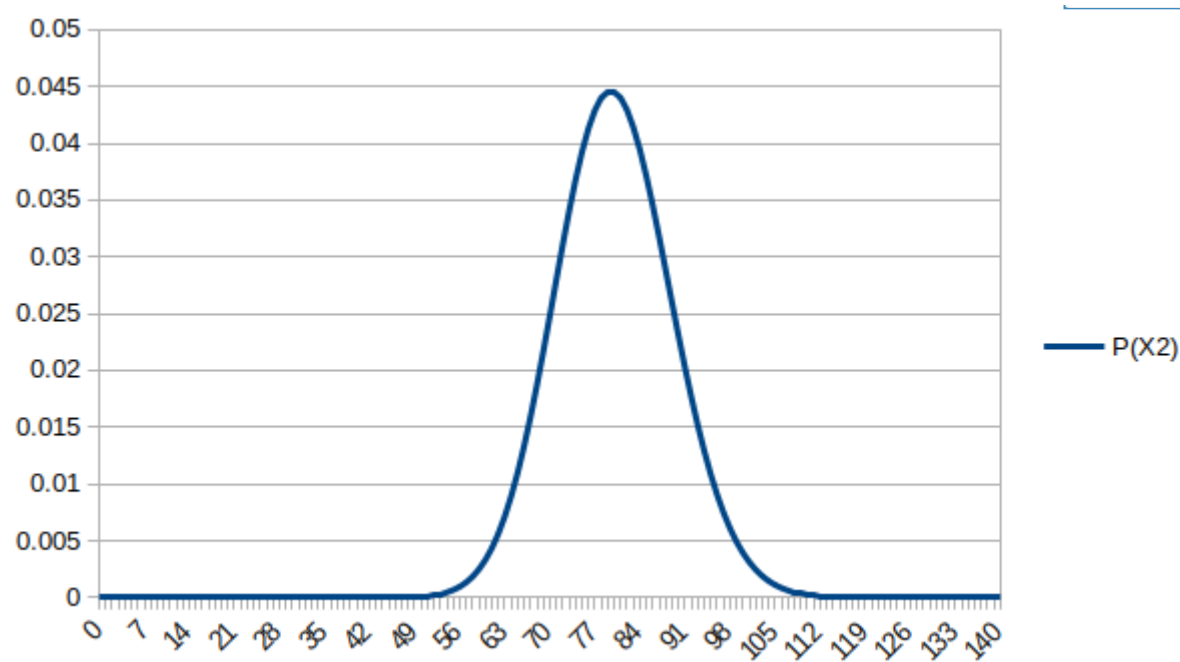
- null- The asteroid will crash in the year 2025
alternate- The asteroid will crash before the year 2025
- null- The asteroid will crash in the year 2025
alternate- The asteroid will crash after the year 2025
- null- The asteroid will crash in the year 2025
alternate- The asteroid can crash before or after the year 2025
- null- The asteroid will crash in the year 2025
alternate- The asteroid will not crash

Not attempted

6/10

Given below is the graph of X_1 vs $P(X_1)$ and X_2 vs $P(X_2)$. Here X_1 and X_2 follow Poisson distribution.





Which of the following correctly represents the relationship between the variance of these distribution?

- ☒ $\text{Var}(X1) < \text{Var}(X2)$
- $\text{Var}(X1) > \text{Var}(X2)$
- $\text{Var}(X1) = \text{Var}(X2)$
- Variance is not defined for Poisson distribution

Incorrect

7/10

You applied a regression analysis on a dataset. The model equation came out to be in the form:

$$y = \beta_0 + \beta_1 x_1 + \beta_2 x_2^2 + \beta_3 x_3^3$$

Will the model equation be linear or non-linear?

- Linear
- ☒ Non-linear
- Need more data

Incorrect

8/10

Alex has a Time series Data in which he fits two ARMA models. ARMA(1,2) and ARMA(2,2). AIC values for both of the models are 439 and 424. What can you say about the models?

- ARMA(1,2) is better than ARMA(2,2)
- ☒ ARMA(2,2) is better than ARMA(1,2)
- Both are equally sufficient
- Insufficient Data

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Incorrect

9/10

In a standard normal distribution the value of median will be:

- Equal to mean and mode
- 0
- 1
- Both a and b

Incorrect

10/10

In a college, 60% of the students like football, 40% of the students like volleyball, and 20% of the students like both football and volleyball

If a student is picked at random, what is the probability that the student likes neither football nor volleyball?

- 4/5
- 2/5
- 0
- 1/5

Incorrect

i Suggested reading

[7 Most Commonly Asked Questions On Correlation, Simple Linear Regression](#)

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