

Question 2/20

Skewness of Normal distribution is \_\_\_\_\_

☒ 0

☐ negative

☐ positive

☐ undefined

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Question 3/20

\_\_\_\_\_ is an example of a strategy used to reduce the likelihood of committing statistical error.

- ☐ Including outliers in analysis
- ☐ Filling in missing data
- ☐ Altering or otherwise changing the data
- ☐ Excluding outliers in analysis

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## Question 5/20

Of what is  $p$  the probability if the null hypothesis were true?

- ☐  $p$  is the probability that the results would be replicated if the experiment was conducted a second time.
- ☐  $p$  is the probability of observing a test statistic at least as big as the one we have if there were no effect in the population (i.e., the null hypothesis were true).
- ☐  $p$  is the probability that the results are not due to chance, the probability that the null hypothesis is false.
- ☐  $p$  is the probability that the results are due to chance, the probability that the null hypothesis (H<sub>0</sub>) is true.

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Question 6/20

Efficient portfolios can be defined as those portfolios which for a given level of risk provides

- ☐ no gain
- ☐ average return
- ☐ minimum return
- ☐ maximum return

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## Question 8/20

What will a factor loading in an orthogonal solution represent?

- ☐ eigenvalues
- ☐ covariance
- ☐ standard deviation
- ☐ correlation

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Question 9/20

In a linear regression problem, we are using R-squared to measure goodness-of-fit. We add a feature in linear regression model and retrain the same model. Which of the following option is true?

- ☐ If  $r$  squared increases, this variable is significant.
- ☐ Individually  $r$  squared cannot tell about variable importance. we cant say anything about it.
- ☐ If  $r$  squared decreases, this variable is not significant.
- ☐ none of these

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Question 10/20

Any measure indicating the centre of a set of data, arranged in an increasing or decreasing order of magnitude, is called a measure of:

- ☐ Central tendency
- ☐ Skewness
- ☐ Dispersion
- ☐ Symmetry

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### Question 13/20

Read the statements given below. Identify the right option from the following for pie chart.

Statement A: To make a pie chart with Matplotlib, we can use the `plt.pie()` function.

Statement B: The `autopct` parameter allows us to display the percentage value using the Python string formatting.

- ☐ Both the statements are correct
- ☐ Statement B is correct
- ☐ Both the statements are wrong
- ☐ Statement A is correct

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## Question 16/20

What does dimensionality reduction reduce?

- ☐ collinearity
- ☐ performance
- ☐ stochastics
- ☐ entropy

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Question 17/20

Suppose you are training a linear regression model. Now consider these points.

1. Overfitting is more likely if we have less data
2. Overfitting is more likely when the hypothesis space is small. Which of the above statement(s) are correct?

- ☐ both are false
- ☐ 1 is true and 2 is false
- ☐ 1 is false and 2 is true
- ☐ both are true

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Question 19/20

What do you expect will happen with bias and variance as you increase the size of training data?

- ☐ Bias decreases and Variance increases
- ☐ Bias decreases and Variance decreases
- ☐ Bias increases and Variance decreases
- ☐ Bias increases and Variance increases

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## Question 20/20

Which of the following is a true statement, for comparing the t distributions with standard normal,

- ☐ None of the Above
- ☐ Greater the degree of freedom, the more the t-distribution resembles the standard normal distribution
- ☐ The Normal Curve is symmetrical whereas the t-distributions are slightly skewed
- ☐ The proportion of area beyond a specific value of "t" is less than the proportion of normal curve

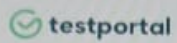
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Question 18/20

In statistical testing of the hypothesis, what happens to the region of rejection when the level of significance  $\alpha$  is reduced?

- ☐ The rejection region is reduced in size
- ☐ The rejection region is increased in size
- ☐ The rejection region is unaltered
- ☐ The answer depends on the value of  $\beta$

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Question 15/20

The mean =  $np$  and the standard deviation =  $\sqrt{npq}$  for

- ☐ poisson distribution
- ☐ binomial distribution
- ☐ normal distribution
- ☐ exponential distribution

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## Question 14/20

\_\_\_\_\_ Statistics uses the data to provide descriptions of the population, either through numerical calculations or graphs or tables.

- ☐ Descriptive
- ☐ Qualitative
- ☐ Quantitative
- ☐ Inferential

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Question 12/20

Which one of these statistics is unaffected by outliers?

- ☐ Mean
- ☐ interquartile range
- ☐ standard deviation
- ☐ range

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## Question 11/20

Which of the following option is true regarding "Regression" and "Correlation"? Note: y is dependent variable and x is independent variable.

- ☐ The relationship is symmetric between x and y in both.
- ☐ The relationship is symmetric between x and y in case of correlation but in case of regression it is not symmetric.
- ☐ The relationship is not symmetric between x and y in case of correlation but in case of regression it is symmetric.
- ☐ The relationship is not symmetric between x and y in both.

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## Question 7/20

The pacf is necessary for distinguishing between


- ☐ An AR and an ARMA model
- ☐ Different models from within the ARMA family
- ☐ An MA and an ARMA model
- ☐ An AR and an MA model

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**Question 4/20**

The .ppf() function represents

- ☐ percentage change in column value
- ☐ standard normal distribution z - score
- ☐ the normal distribution value for which a given probability is the required value.
- ☐ the probability for a given normal distribution value,

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## Question 1/20

\_\_\_\_\_ is a metric to measure how often a randomly chosen element would be incorrectly identified.

- ☐ Gini Index
- ☐ Information Gain
- ☐ Entropy
- ☐ Random probability

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## Question 17/20

. What will a factor loading in an orthogonal solution represent?

- ☐ standard deviation
- ☐ correlation
- ☐ covariance
- ☐ eigenvalues

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