

STATISTICS WORKSHEET-1

1. Bernoulli random variables take only the value 1 and 0.

Ans: a) True.

2. Which of the following theorem states that the distribution of averages of iid variables, properly normalized, becomes that of a standard normal as the sample size increases?

Ans: Central limit Theorem

3. Which of the following is incorrect with respect to use of poisson distribution?

Ans: b) Modelling bound count data

4. Point out the correct statement.

Ans: d) All of the mentioned

5. ----- random variables are used to model rates.

Ans: c) poisson

6. Usually replacing the standard error by its estimated value does change the CLT.

Ans: b) False

7. Which of the following testing concerned with making decision using data ?

Ans: b) Hypothesis

8. Normalized data are centered at ----- and have units equal to standard deviations of the original data

Ans: a) 0

9. Which of the following statement is incorrect with respect to outliers?

Ans: c) Outliers cannot confirm to the regression relationship

10. What do you understand by the term Normal Distribution?

Ans: A normal distribution is a type of continuous probability distribution in which most data points cluster toward the middle of the range, while the rest taper off symmetrically toward either extreme.

11. How do you handle missing data? What imputation techniques do you recommend?

Ans: One way of handling missing values is the deletion of the rows or columns having null values. If any columns have more than half of the values as null then you can drop the entire column. And I recommend Hot deck imputation technique.

12. What is A/B testing?

Ans: A/B testing is a type of experiment in which you split your web traffic or user base into two groups, and show two different versions of a web page, app, email, and so on, with the goal of comparing the results to find the more successful version.

13. Is mean imputation of missing data acceptable practice?

Ans: No.

14. What is linear regression in statistics?

Ans: Linear regression analysis is used to predict the value of a variable based on the value of another variable. The variable you want to predict is called the dependent variable. The variable you are using to predict the other variable's value is called the independent variable.



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Q1 to Q9 have only one correct answer. Choose the correct option to answer your question.

1. Bernoulli random variables take (only) the values 1 and 0.

Ans: a) True

2. Which of the following theorem states that the distribution of average

Q10 and Q15 are subjective answer type questions, Answer them in your own words briefly.

15. What do you understand by the term Normal Distribution?

16. How do you handle missing data? What imputation techniques do you recommend?

17. What is A/B testing?

18. Is mean imputation of missing data acceptable practice?

19. What is linear regression in statistics?



are the various branches of statistics?

15. What

