

STATISTICS WORKSHEET-3

1 Total Variation = Residual Variation + Regression Variation

2 binomia

3 2

4 Type-I error

5 size of the best

6 Increase

7 Hypothesis

8 All of the mentioned

9 0

10 It is a mathematical formula for determining conditional probability. conditional probability is the likelihood of an out come occurring based on a previous outcome having occurred in similar circumstance

$$P(A/B)=P(B/A)P(A)/P(B)$$

11 Z-Score is a numerical measurement used in statistics of value's relationship to the mean of a group value's ,measured in the term of standard deviation from the mean

12 t-test is any statistical hypothesis test in which the test statistical follows a Student's t- distribution under the null hypothesis .

13 In statistics, A percentile is a term that describe how a score compare to other score from the same set . While there is no universal definition of percentile , It is commonly expressed as the percentage of values in a set of data score that fall below a given value.

$$Px=x(n+1)/100$$

14 A statistical method for testing whether two or more dependent variable means are equal.

15 Anova is helpful for testing three or more variables .it is similar to multiple two sample

T-tests. How ever it results in fewer type 1 error and is appropriate for a range of issues .

MACHINE LEARNING

- 1 All of the above
- 2 None
- 3 Reinforcement learning
- 4 . The tree representing how close the data points are to each other
- 5 None
- 6 k-nearest neighbour is same as k-means
- 7 1, 2 and 3
- 8 Clustering analysis is negatively affected by multicollinearity of features
- 9 2
- 10 Given sales data from a large number of products in a supermarket, estimate future sales for each of these products.

Given a database of information about your users, automatically group them into different market segments.
- 11 a
- 12 b
- 13 clustering helps to determine the internal structure of the data . this clustering analysis has been used to for analysis vector region of attraction . clustering helps in understanding the natural grouping in a dataset . their purpous is to make sense to partition the data into some group of logical groupings.
- 14 Improve the quality of clustering . first,perform a visual check that the cluster look as expected and example that you considere similarly do appear in the same cluster .then check these commonly used described in the following sections.