

26/07/2020

Learning

Week 5 -Supervised Learning (Regression and Classification Techniques) - I

Week 6: Supervised Learning (Regression and Classification **Techniques)-II**

Week 7 -**Association Rule** Mining and Big Data

Week 8 -Clustering Analysis and Prescriptive Analytics

Course Summary+ Insight into the **Final Exam**

Introduction to Data Analytics - - Unit 2 - Week 1 - Course Overview and Descriptive Statistics

Accepted Answers:

a sample

4) To test the linear relationship between y (dependent) and x (independent) continuous 1 point variables, the best plot is:

\bigcirc	bar	chart

- scatter plot
- histogram
- pie chart
- none of the above

No, the answer is incorrect. Score: 0

Accepted Answers:

scatter plot

5) The algebraic sum of deviations from the mean is:

\bigcirc	mean

- zero
- maximum
- minimum
- undefined

No, the answer is incorrect. Score: 0

Accepted Answers:

zero

6) In an agriculture research center, the scientists collected the past 20 years data of rainfall 1 point along with the crop yield. If they want to perform regression analysis on this data, which variable should they consider to be the independent variable and which one should they consider being the dependent variable?

- Independent variable: yield, Dependent variable: rainfall
- Independent variable: rainfall, Dependent variable: yield

No, the answer is incorrect.

Score: 0

Accepted Answers:

Independent variable: rainfall, Dependent variable: yield

7) In a glass production house, John recorded the temperature values in degree Celsius. After 1 point working out he came to know that mean of the data is 28.6degree C and variance is $4.0(\text{ degree } \text{C})^2$. If the data values were converted to Fahrenheit (F), what would be the values of

mean and variance? We use the following formula to convert a temperature value from degrees Celsius (C) to Fahrenheit (F)

 $F)^2$

$$F = \frac{9}{5}C + 32$$

mean = 28.6 degree F and variance = 4.0(degree F)²
mean = 57.2 degree F and variance = \$8.0(degree F)²
mean = 87.22 degree F and variance = 16.38(degree F)²
mean = 83.48 degree F and variance = 12.96(degree F)²
No, the answer is incorrect.
Score: 0
Accepted Answers:

f V I pcin

Introduction to Data Analytics - - Unit 2 - Week 1 - Course Overview and Descriptive Statistics

8) If a data set has even number of observations. Then median of the data set: **1** point

- cannot be calculated
- is equal to the mean
- is average of the two middle items
- is one of the two middle items, chosen at random
- none of the above

No, the answer is incorrect. Score: 0

Accepted Answers: is average of the two middle items

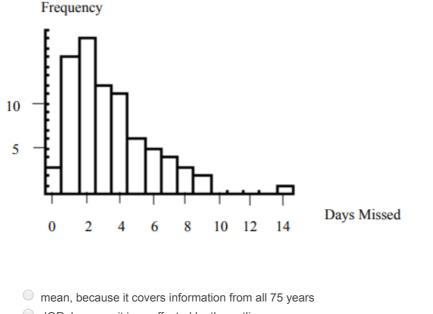
9) In a given data set of 100 observations, if the largest value is doubled, which of the following option is/are false? (assume that largest value is non zero) (Note: multiple options may be correct)

- the variance increases
- the mean increases
- the median increases
- the IQR increases
- the range increases

No, the answer is incorrect. Score: 0

Accepted Answers: the median increases the IQR increases

10)A Boeing 747 passenger aircraft gets cancelled while severe snowstorms. The following **1** point histogram shows the number of days missed (per year) in last 75 years. Which of the following should you use as a measure to describe the center of the distribution?



- IQR, because it is unaffected by the outliers
- median, because the distribution is skewed to the right
- standard deviation, because it is unaffected by outliers and the distribution is skewed

No, the answer is incorrect. Score: 0

Accepted Answers:

median, because the distribution is skewed to the right

Solutions for assignment 1: https://drive.google.com/file/d/0BwLesDk8tgZVWER6ekxteWQzZEE/view?usp=sharing 0 poi

