

[17ITX27 Data Science Techniques (IT)], [17CSX01 Data Science (CSE & ECE)], [17CAX29 Data Science and Techniques (MCA)]

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* Required

PART -A

Multiple Choice questions (30*1=30 Marks)

version of Python does this course cover? *

- ☐ Python 3
- ☐ Python 4
- ☐ Python 2
- ☐ Python 5

Which of following sets the of scores has the greatest variability (range)? *

- ☐ 2, 5, 8, 11
- ☐ 20, 25, 26 ,27
- ☐ 42, 43, 44, 45
- ☐ 13, 13, 13, 13



Code for calculating the variance for the dataset A *

- ☐ A.var()
- ☐ A.var[]
- ☐ A.var
- ☒ A.variance()

Which of the following is not a visualization tool *

- ☐ Kibana
- ☒ Power BI
- ☐ Tableau
- ☐ RPA

What is the variance for the following set of scores: 2, 2, 2, 2, 2. *

- ☐ 2
- ☐ 4
- ☐ 25
- ☒ 0

What are all the formats we directly import to Jupiter notebook? *

- ☐ All
- ☐ Text
- ☐ csv
- ☐ Excel



A pie diagram is also called: *

- ☐ Line diagram
- ☐ Angular diagram
- ☐ Pictogram
- ☐ Bar diagram

The specific statistical methods that can be used to summarize or to describe a collection of data is called: *

- ☐ All of the mentioned
- ☐ Analytical statistics
- ☐ Inferential statistics
- ☐ Descriptive statistics

In Tableau, calculative field is used to *

- ☐ Calculate sum
- ☐ Draw bar chart
- ☐ create new field
- ☐ Plot histogram



Which following file is not directly imported to Tabluea *

- ☐ Text
- ☐ Excel
- ☐ csv
- ☐ json

Standard error of the sampling distribution of a statistic t is: *

- ☐ $\sqrt{\text{Standard deviation}}$
- ☐ $\sqrt{\text{Variance}}$
- ☐ $\sqrt{\text{Median}}$
- ☐ $\sqrt{\text{Mean}}$

Normally distributed data are normally referred to as: *

- ☐ Skewed
- ☐ Asymmetrical
- ☒ Bell-shaped
- ☐ Peaked

TP+FN is equal to *

- ☐ Actual Negatives
- ☐ population
- ☐ Actual Positives
- ☐ None



The seminar rooms in the library are identified by the letters A to H. A researcher records the number of classes held in each room during the first semester. What kind of graph would be appropriate to present the frequency distributions of these data? *

- ☐ Box plot
- ☐ Scatterplot
- ☐ Bar chart
- ☐ Histogram

A set of scores is presented in a histogram. The histogram shows a series of bars that tend to decrease in height from left to right. What is the shape of the distribution? *

- ☐ Negativity skewed
- ☐ Normal
- ☐ Leptokurtic
- ☐ Positively skewed

In a linear regression equation, $Y = a + bX$, what is the b denote? *

- ☐ The score on the variable X
- ☐ The intercept with the Y -axis
- ☐ The regression coefficient, the slope of the line
- ☐ The correlation coefficient, the strength of the line



What is the relative risk of always exceeding the speed limit for people under 30 compared to people over 30? *

- ☐ 0.4
- ☐ 2.5
- ☐ 0.5
- ☐ 0.3

Sensitivity is *

- ☐ Log Loss
- ☐ TPR
- ☐ AUC
- ☐ TNR

The most number of occurrences in a data set is called *

- ☐ Mean
- ☐ Median
- ☐ Mode
- ☐ Variance



What is TP (True Positive) *

- ☐ Predicted actual Positives
- ☐ Predicted negatives
- ☐ Predicted false Negatives
- ☐ Predicted Positives

Print statements are formatted as: *

- ☐ Print()
- ☐ print[]
- ☐ Print{}
- ☐ print()

In Tableau, filters can be applied to *

- ☐ Measure
- ☐ Dimension and Measure
- ☐ None
- ☐ Dimension

A variable may in the form of *

- ☐ All the Mentioned
- ☐ Categorical
- ☐ Text
- ☐ Numerical



Confusion matrix is used to *

- ☐ Find AUC
- ☐ validate Regression problem
- ☐ None of the Mentioned
- ☐ validate classification problem

Code for rounding of floating number to integer - DF. *

- ☐ DF.int[]
- ☐ DF.round[]
- ☐ DF.int()
- ☐ DF.round()

Among people with age over 30, what's the "risk" of always exceeding the speed limit? *

- ☐ 0.40
- ☐ 0.20
- ☐ 0.50
- ☐ 0.33



A researchers studies the factors that determine the number of children future couples decide to have. The variable 'number of children' is a : *

- ☐ Discrete variable
- ☐ Ordinal variable
- ☐ Continuous variable
- ☐ Categorical variable

A teacher asks students to identity their favorite reality television show. What type of measurement scale do the different television shows make up? *

- ☐ Nominal
- ☐ Ordinal
- ☐ Ratio
- ☐ Interval

Command for replacing NaN as 1 in dataframe A *

- ☐ A.dropna(1)
- ☐ A.fillna()
- ☐ A.fillna(1)
- ☐ A.replace.NaN(1)



Which one of these statistics is unaffected by outliers? *

- ☐ Standard deviation
- ☐ Range
- ☐ Mean
- ☐ Interquartile range

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