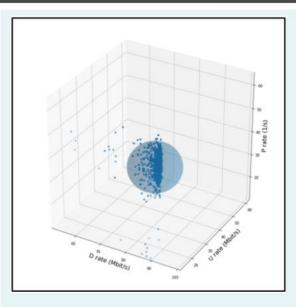


Question 1

Correct

Mark 2.00 out of 2.00

Flag question



Refer to the exhibit. What is the purpose of the blue sphere?

Select one:

- to indicate data clusters
- to categorize historical data
- to measure true error
- to display the mean

Refer to curriculum topic: 4.3.2

A scientist must calculate a decision boundary to detect anomalies. Anomalous data points are points that lie beyond the decision boundary sphere.

The correct answer is: to indicate data clusters

Show one page at a time

Finish review

Question 2	Which type of regression analysis is often used to model variables that have an exponential relationship?
Correct Mark 2.00 out of	Select one:
2.00	mean
	nonlinear
question	o polynomial
	median
	Refer to curriculum topic: 4.1.2 Nonlinear regression analysis is often used to model variables that have an exponential relationship. A nonlinear regression plot may appear
	as a set of points arranged to a curved path.
	The correct answer is: nonlinear
Question 3	In a linear regression, which variable is also known as the target or response variable?
Correct Mark 2.00 out of	Select one:
2.00 out of	o predictor
₹ Flag	first
question	dependent
	independent
	Refer to curriculum topic: 4.1.2 The dependent variable is also known as the target or response variable. The independent variable is also known as the predictor or
	explanatory variable.
	The correct answer is: dependent

-

Question 4 Correct	A researcher has measured the reliability of a test using the parallel-forms method. What is the expected result of this measurement?	
Mark 2.00 out of	Select one:	
2.00	How similar are the scores of two different tests that are created from the same content domain?	*
Flag question	How similarly do different people score on the same test?	
question	What is the variation of scores for different items in the same test?	
	How much variation exists between scores for the same person taking a test multiple times?	
	Refer to curriculum topic: 4.2.1	
	The four different types of reliability that a scientist could examine are as follows:	
	 Inter-rater - How similarly do different people score on the same test? Test-retest - How much variation exists between scores for the same person taking a test multiple times? Parallel-forms - How similar are the scores of two different tests that are created from the same content domain? Internal consistency - What is the variation of scores for different items in the same test? 	
	The correct answer is: How similar are the scores of two different tests that are created from the same content domain?	
Question 5	Which type of machine learning algorithm uses data sets verified by experts as its learning basis?	
Correct Mark 2.00 out of	Select one:	
2.00	association	
F Flag	routing	
question	supervised	*
	Clustering	
	Refer to curriculum topic: 4.1.1	
	Supervised machine learning algorithms can learn from a dataset that has already been processed by people. Two types of algorithms us	sed

with supervised machine learning are regression algorithms and classification algorithms.

When is an experiment considered reliable? Select one: if someone else can repeat the experiment and find different conclusions if someone else can repeat the experiment and achieve the same conclusions if someone else can modify the experiment and achieve similar conclusions Refer to curriculum topic: 4.2.1 An experiment is considered reliable if someone else can repeat it and achieve the same results as the original scientist achieved. The correct answer is: if someone else can repeat the experiment and find the same conclusion Which type of information can distort the results of an analysis and careful consideration should be given to their removal from a data set? Select one: azimuth units of measurement o outliers z-axis Refer to curriculum topic: 4.3.2 Outliers include corrupt or distorted data that deviates far from expected values and can distort the results of an analysis. After careful		
An experiment is considered reliable if someone else can repeat it and achieve the same results as the original scientist achieved. The correct answer is: if someone else can repeat the experiment and find the same conclusion Which type of information can distort the results of an analysis and careful consideration should be given to their removal from a data set? Select one: azimuth units of measurement o outliers z-axis Refer to curriculum topic: 4.3.2	Correct Mark 2.00 out of 2.00 Flag	Select one: if someone else can repeat the experiment and find different conclusions if someone else can repeat the experiment and find the same conclusion if someone else can modify the experiment and achieve the same conclusions
Correct Mark 2.00 out of 2.00 azimuth Flag question outliers z-axis Refer to curriculum topic: 4.3.2		An experiment is considered reliable if someone else can repeat it and achieve the same results as the original scientist achieved.
	Correct Mark 2.00 out of 2.00 Flag	Select one: azimuth units of measurement outliers
consideration has been given, these data points are frequently removed from the dataset. The correct answer is: outliers		Outliers include corrupt or distorted data that deviates far from expected values and can distort the results of an analysis. After careful consideration has been given, these data points are frequently removed from the dataset.

Question 8

When you follow the scientific method, which step would occur after testing the hypotheses through experimentation?

Question 8 Correct Mark 2.00 out of 2.00 Flag question	When you follow the scientific method, which step would occur after testing the hypotheses through experimentation? Select one: Perform research. Communicate the results of the process. Ask a question about an observation. • Analyze data from an experiment to draw a conclusion.
	Refer to curriculum topic: 4.2.1 The scientific method is commonly used in scientific discovery and contains the following steps: Step 1. Ask a question about an observation such as what, when, how, or why. Step 2. Perform research. Step 3. Form a hypothesis from this research. Step 4. Test the hypothesis through experimentation. Step 5. Analyze the data from the experiments to draw a conclusion. Step 6. Communicate the results of the process. The correct answer is: Analyze data from an experiment to draw a conclusion.
Question 9 Correct Mark 2.00 out of 2.00 Flag question	What type of error has occurred when a data scientist records a measurement incorrectly after viewing the correct value on the measuring device? Select one: random instrumental systematic gross
	Refer to curriculum topic: 4.2.2

Question 10 Correct Mark 2.00 out of 2.00 Flag question	What is the goal of linear regression? Select one: to compute a line the interpolates the data, and which can be expressed as a weighted average of the predictor variables and any other function to provide a formula that does not require validation to provide a summary of the data to construct a flow chart	
	Refer to curriculum topic: 4.1.2 Linear regression is used for predicting a value based on gathered data. Regression analysis has a trend line in a scatter plot that shows the target variable plotted on the y-axis and the independent variable plotted on the x-axis. The correct answer is: to compute a line the interpolates the data, and which can be expressed as a weighted average of the predictor variables and any other function	
Question 11 Correct Mark 2.00 out of 2.00 Flag question	What are two types of supervised machine learning algorithms? (Choose two.) Select one or more: association mean regression mode classification clustering	
	Refer to curriculum topic: 4.1.1 Two algorithms used with supervised machine learning are classification and regression. Supervised machine learning algorithms are the most common algorithms used in big data analytics.	

Question 12 Correct	Which type of reliability would a scientist measure if the scientist wants to examine the variation between exam scores for a person taking a single test multiple times?
Mark 2.00 out of 2.00 Flag question	Select one: test-retest internal consistency inter-rater
	parallel-forms Refer to curriculum topic: 4.2.1
	The four different types of reliability that a scientist could examine include the following: • Inter-rater - How similarly do different people score on the same test? • Test-retest - How much variation exists between scores for the same person taking a test multiple times? • Parallel-forms - How similar are the scores of two different tests that are created from the same content domain? • Internal consistency - What is the variation of scores for different items in the same test?
	The correct answer is: test-retest
Question 13 Correct Mark 2.00 out of 2.00 Flag question	When a number of items are grouped together, which type of machine learning algorithm can determine which items in the group predict the presence of other items? Select one:
	classification regression
	associationclustering
	Refer to curriculum topic: 4.1.1

Question 14 What is the most commonly used statistical method for analyzing data? Correct Select one: Mark 2.00 out of mean analysis 2.00 ▼ Flag sample proportion question mean estimation regression analysis Refer to curriculum topic: 4.1.2 Regression analysis is the most commonly used statistical method for analyzing data and there are many regression models available. Regression analysis can look for correlations between one predictor variable and one target variable or for correlations between more than one predictor variable and a target variable. The correct answer is: regression analysis Question 15 If the results of a study do not align with previous studies, what question should an evaluator ask? Correct Select one: Mark 2.00 out of Did the study have an appropriate sample size? 2.00 Are there any experts that disagree with the findings? ▼ Flag question Can the study be replicated to verify the findings? Who paid for the research study? Refer to curriculum topic: 4.2.3 When following the evaluation guidelines, if a study does not produce findings that confirm or align with the results of current studies in the field, the study should be replicated to verify the reliability of the findings. The correct answer is: Can the study be replicated to verify the findings?