

✓ Congratulations! You passed!

TO PASS 80% or higher

LATEST SUBMISSION GRADE



grade 100%

Regression, Cluster Analysis, & Association Analysis

1	100%			
1.	What is the main difference between classification and regression? In classification, you're predicting a categorical variable, and in regression, you're predicting a nominal variable. In classification, you're predicting a category, and in regression, you're predicting a number. There is no difference since you're predicting a numeric value from the input variables in both tasks. In classification, you're predicting a number, and in regression, you're predicting a category. Correct That's correct!	1/1 point		
2.	Which of the following is NOT an example of regression? Estimating the amount of rain Predicting the demand for a product Determining whether power usage will rise or fall Predicting the price of a stock	1/1 point		
3.	That's correct! In linear regression, the least squares method is used to Determine how to partition the data into training and test sets. Determine the distance between two pairs of samples. Determine whether the target is categorical or numerical. Determine the regression line that best fits the samples.	1/1 point		
4.	Correct That's correct! How does simple linear regression differ from multiple linear regression? In simple linear regression, the input has only one variable. In multiple linear regression, the input has more than one variables. They are the just different terms for linear regression with one input variable. In simple linear regression, the input has only categorical variables. In multiple linear regression, the input can be a mix of categorical and numerical variables. In simple linear regression, the input has only categorical variables. In multiple linear regression, the input has only	1/1 point		
5.	numerical variables. Correct That's correct! The goal of cluster analysis is To segment data so that differences between samples in the same cluster are maximized and differences between samples of different clusters are minimized. To segment data so that all samples are evenly divided among the clusters. To segment data so that all categorical variables are in one cluster, and all numerical variables are in another cluster. To segment data so that differences between samples in the same cluster are minimized and differences between samples of different clusters are maximized.	1/1 point		

	✓ Correct That's correct!	
6.	Cluster results can be used to All of these choices are valid uses of the resulting clusters. Create labeled samples for a classification task Segment the data into groups so that each group can be analyzed further Determine anomalous samples Classify new samples	1/1 point
7.	Correct That's correct! A cluster centroid is The mean of all the samples in the two farthest clusters. The mean of all the samples in all clusters The mean of all the samples in the two closest clusters. The mean of all the samples in the cluster	1/1 point
8.	Correct That's correct! The main steps in the k-means clustering algorithm are Calculate the centroids, then determine the appropriate stopping criterion depending on the number of centroids. Assign each sample to the closest centroid, then calculate the new centroid. Calculate the distances between the cluster centroids, then find the two closest centroids. Count the number of samples, then determine the initial centroids.	1/1 point
9.	✓ Correct That's correct! The goal of association analysis is To find the most complex rules to explain associations between as many items as possible in the data. To find rules to capture associations between items or events To find the number of clusters for cluster analysis To find the number of outliers in the data	1/1 point
10.	✓ Correct That's correct! In association analysis, an item set is A set of transactions that occur a certain number of times in the data A set of items that infrequently occur together A set of items that two rules have in common A transaction or set of items that occur together	1/1 point
11.	✓ Correct That's correct! The support of an item set ② Captures the frequency of that item set ○ Captures how many times that item set is used in a rule ○ Captures the number of items in that item set	1/1 point

12. Rule confidence is used to	1 / 1 point
Prune rules by eliminating rules with low confidence	
Measure the intuitiveness of a rule	
O Determine the rule with the most items	
Oldentify frequent item sets	
✓ Correct That's correct!	

✓ Correct
That's correct!