Congratulations! You passed!

Grade received 100%

Latest Submission Grade 100% To pass 80% or higher

Go to next item

I by the learning process of human beings. The sin tasks such as object recognition, summarization, and such as object recognition, and summarization, and su
ters the ability to make decision by writing down rules and methods and stively learn from data and allow computers to find hidden insights.
ntively learn from data and allow computers to find hidden insights. In learn without explicitly being programmed to do so.
n learn without explicitly being programmed to do so.
hine Learning technique? 1/1 point
1/ I point
ne learning techniques are regression/estimation, classification, clustering, on, sequence mining, and recommendation systems.
use Multiple Linear Regression? 1/1 point
pased on engine size.
likely to repay a loan based on age and income.
mers based on their demographic characteristics.
pples in an orchard based on temperature and rainfall.
ar regression when there is more than one independent variable for able.
ch a customer belongs to. - switches to another provider/brand. - responds to a particular advertising campaign or not.
be phrased as a classification problem.
le of Logistic Regression? 1/1 point
dual having a heart attack based on how much they exercise and how much
defaulting on their mortgage based upon their credit score and age.
rchasing life insurance based on age and income.
ples of logistic regression as they try to predict the probability of a binary
is true for k-means clustering? 1/1 point
vised learning algorithms that solve well known clustering problems. non-overlapping clusters without any cluster-interval structure.
m clusters in such a way that similar samples go into a cluster, and dissimilar ters.
m clusters in such a way that similar samples go into a cluster, and dissimilar ters.
ters.
be phrased as a classification problem. Ile of Logistic Regression? If I point dual having a heart attack based on how much they exercise and how much defaulting on their mortgage based upon their credit score and age. rchasing life insurance based on age and income.

O k-means creates clusters by grouping data points with similar labels.

	•	The objective of k-means is to form clusters in such a way that similar samples go into a cluster, and dissimilar samples fall into different clusters.	
	0	k-means divides the data into clusters with minimal overlap such that there are low chances of dissimilar samples in the same cluster.	
	0	Correct K-Means seeks to create non-overlapping clusters.	
8.	Wha	at are some advantages of logistic regression over SVM?	1/1 point
	•	It focuses on attaining the right probability for each output class.	
	0	It focuses on finding the best margin to separate classes in one iteration.	
	0	It works well with high-dimensional data, such as text or image.	
	0	It can be used for linearly separable data.	
	0	Orrect CorrectI SVM is unable to provide probability estimates of each class.	
9.	In c	omparison to mean absolute error, mean squared error:	1/1 point
	0	Weighs small and large errors equally.	
	0	Is more interpretable by taking the same unit as the response.	
	•	Focuses more on large errors.	
	0	Avoids cancellation of errors.	
	0	Correct The squared term exponentially increases larger errors as compared to smaller ones.	
10	. Wh	en do we use regression trees instead of decision trees?	1/1 point
	•	When the response is continuous instead of categorical	
	0	When all of the independent variables are continuous	
	0	When the response is categorical instead of continuous	
	0	When some of the independent variables are continuous	
	0	Orrect Correct! Regression trees split the data based on features like in decision trees, but the prediction is an average across the data points in that node.	