Module 1 Quiz _{测验, 10} 个问题

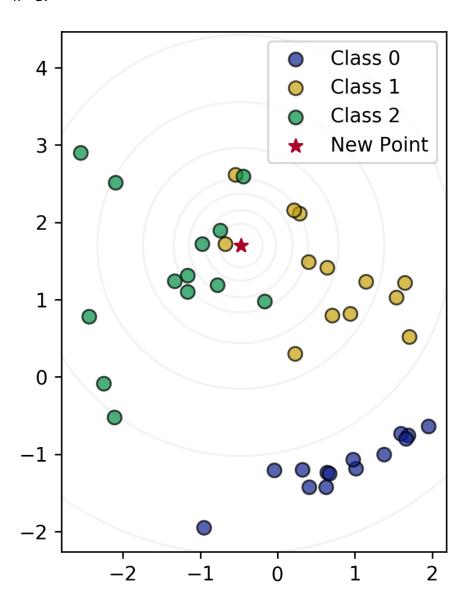
1 point		
1.		
-	ne option that correctly completes the sentence:	
Training a model using labeled data and using this model to predict the labels for new data is known as		
	Supervised Learning	
\bigcirc	Density Estimation	
	Clustering	
	Unsupervised Learning	
1 point		
point		
point 2.	ne option that correctly completes the sentence:	
point 2. Select th	ne option that correctly completes the sentence: g the features of an unlabeled dataset to find hidden e is known as	
point 2. Select th Modelin structure	g the features of an unlabeled dataset to find hidden	
point 2. Select th Modelin structure	g the features of an unlabeled dataset to find hidden e is known as	
point 2. Select th Modelin structure	g the features of an unlabeled dataset to find hidden e is known as Supervised Learning	

3. Select the option that correctly completes the sentence:

Training a model using categorically labelled data to predict labels for new data is known as		
	Regression	
	Clustering	
	Classification	
	Feature Extraction	
1 point 4. Select the option that correctly completes the sentence: Training a model using labelled data where the labels are continuous quantities to predict labels for new data is known as		
	Feature Extraction	
	Regression	
\bigcirc	Classification	
	Clustering	
1 point		

5.

Using the data for classes 0, 1, and 2 plotted below, what class $Module\ 1$ **Qubi** a KNeighborsClassifier classify the new point as for k = 1 and 测验, 10 个问题 k = 3?



- k=1: Class 2
 - k=3: Class 1
- k=1: Class 1
 - k=3: Class 0
- k=1: Class 0
 - k=3: Class 1
- k=1: Class 1

Module 1 (Quiz
测验, 10 个问题	• k=1: Class 0
	• k=3: Class 2
	1 point 6. Which of the following is true for the nearest neighbor classifier (Select all that apply): A higher value of k leads to a more complex decision boundary Partitions observations into k clusters where each
	observation belongs to the cluster with the nearest mean
	✓ Memorizes the entire training set
	Given a data instance to classify, computes the probability of each possible class using a statistical model of the input features
	1 point 7.
	Why is it important to examine your dataset as a first step in applying machine learning? (Select all that apply):
	See what type of cleaning or preprocessing still needs to be done
	✓ You might notice missing data
	Gain insight on what machine learning model might be appropriate, if any
	Get a sense for how difficult the problem might be

• k=3: Class 2

It is not important

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1 point	
8。 The key s:	y purpose of splitting the dataset into training and test sets
•	To estimate how well the learned model will generalize to new data
	To reduce the amount of labelled data needed for evaluating classifier accuracy
	To reduce the number of features we need to consider as input to the learning algorithm
	To speed up the training process
1 point	
•	rpose of setting the random_state parameter in est_split is: (Select all that apply)
	To avoid predictable splitting of the data
✓	To make experiments easily reproducible by always using the same partitioning of the data
	To avoid bias in data splitting
	To split the data into similar subsets so that bias is not introduced into the final results

point

Module 1 Qtina a dataset with 10,000 observations and 50 features plus one label, what would be the dimensions of X_train, y_train, X_test, and y_test? Assume a train/test split of 75%/25%.

• X_train: (2500,)

• y_train: (2500, 50)

• X_test: (7500,)

• y_test: (7500, 50)

• X_train: (10000, 28)

• y_train: (10000,)

• X_test: (10000, 12)

• y_test: (10000,)

• X_train: (2500, 50)

• y_train: (2500,)

• X_test: (7500, 50)

• y_test: (7500,)

X_train: (7500, 50)

• y_train: (7500,)

• X_test: (2500, 50)

• y_test: (2500,)

• X_train: (10000, 50)

• y_train: (10000,)

• X_test: (10000, 50)

• y_test: (10000,)



我(**伟臣 沈**)了解提交不是我自己完成的作业将永远不会通过 此课程或导致我的 Coursera 帐号被关闭。 了解荣誉准则的更多信息

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