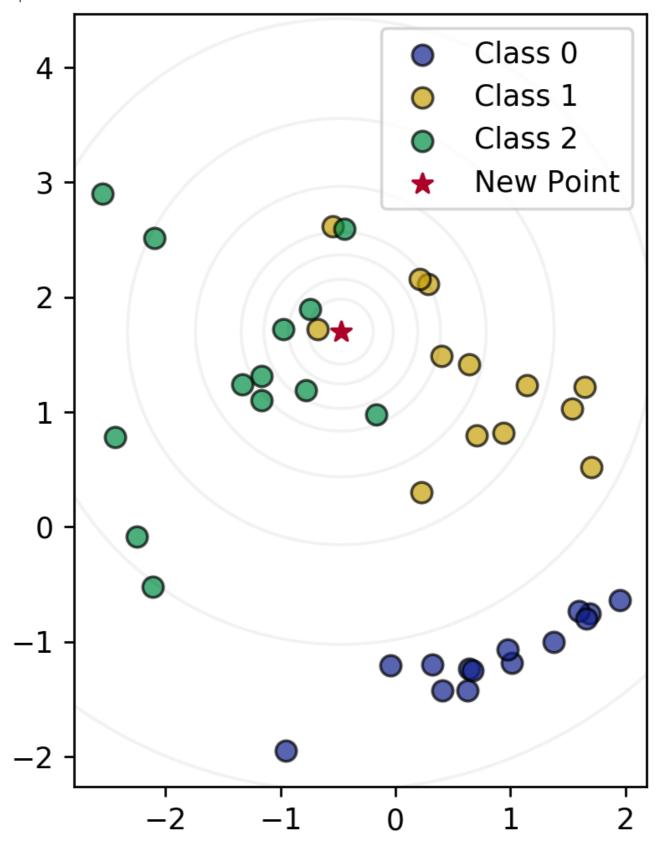
Module 1 Quiz Quiz, 10 questions

1 point			
1. Select the 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			
Clustering			
Density Estimation			
Supervised Learning			
Unsupervised Learning			
1 point			
2.			
Select the option that correctly completes the sentence:			
Modeling the features of an unlabeled dataset to find hidden structure is known as			
Supervised Learning			
Classification			
Unsupervised Learning			
Regression			
1 point			
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			
Clustering			

Module 1 _C Quiz, 10 question	Quite ation as a second
R	Regression
F	eature Extraction
1 point 4. Select the	e option that correctly completes the sentence:
Training a	a model using labelled data where the labels are continuous quantities to predict labels for new nown as
O C	Clustering
O C	Classification
R	Regression
F	eature Extraction
1 point	

5.

Quiz, 10 questions



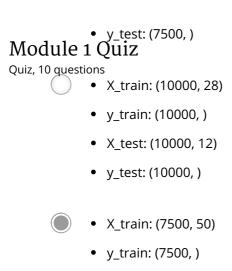
• k=1: Class 1

• k=3: Class 0

• k=1: Class Module 1 Quiz Quiz, 10 questions k=3: Class	
• k=1: Class	2
• k=3: Class	1
• k=1: Class	
• k=3: Class	2
• k=1: Class	0
• k=3: Class	1
1 point	
6.	
Which of the followin	g is true for the nearest neighbor classifier (Select all that apply):
Memorizes th	ne entire training set
Civon a data	instance to classify computes the probability of each possible class using a
	instance to classify, computes the probability of each possible class using a del of the input features
Partitions ob nearest mea	servations into k clusters where each observation belongs to the cluster with the
A higher valu	e of k leads to a more complex decision boundary
1 point 7. Why is it important to apply):	examine your dataset as a first step in applying machine learning? (Select all that
See what typ	e of cleaning or preprocessing still needs to be done
You might no	tice missing data
Gain insight o	on what machine learning model might be appropriate, if any
Get a sense f	or how difficult the problem might be
lt is not impo	rtant

Module 1 Quiz, 10 question	
point	
8. The key	purpose of splitting the dataset into training and test sets is:
	To speed up the training process
	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 estimate how well the learned model will generalize to new data
1 point 9. The pur	pose of setting the random_state parameter in train_test_split is: (Select all that apply)
	To avoid bias in data splitting
	To split the data into similar subsets so that bias is not introduced into the final results
	To avoid predictable splitting of the data
	To make experiments easily reproducible by always using the same partitioning of the data
	dataset with 10,000 observations and 50 features plus one label, what would be the dimensions of 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: (2500, 50)
	• y_train: (2500,)

• X_test: (7500, 50)



• X_train: (10000, 50)

• y_train: (10000,)

• X_test: (2500, 50)

• y_test: (2500,)

• X_test: (10000, 50)

• y_test: (10000,)

I, **Aksha Ali**, understand that submitting work that isn't my own may result in permanent failure of this course or deactivation of my Coursera account.

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