## Module 1 Quiz

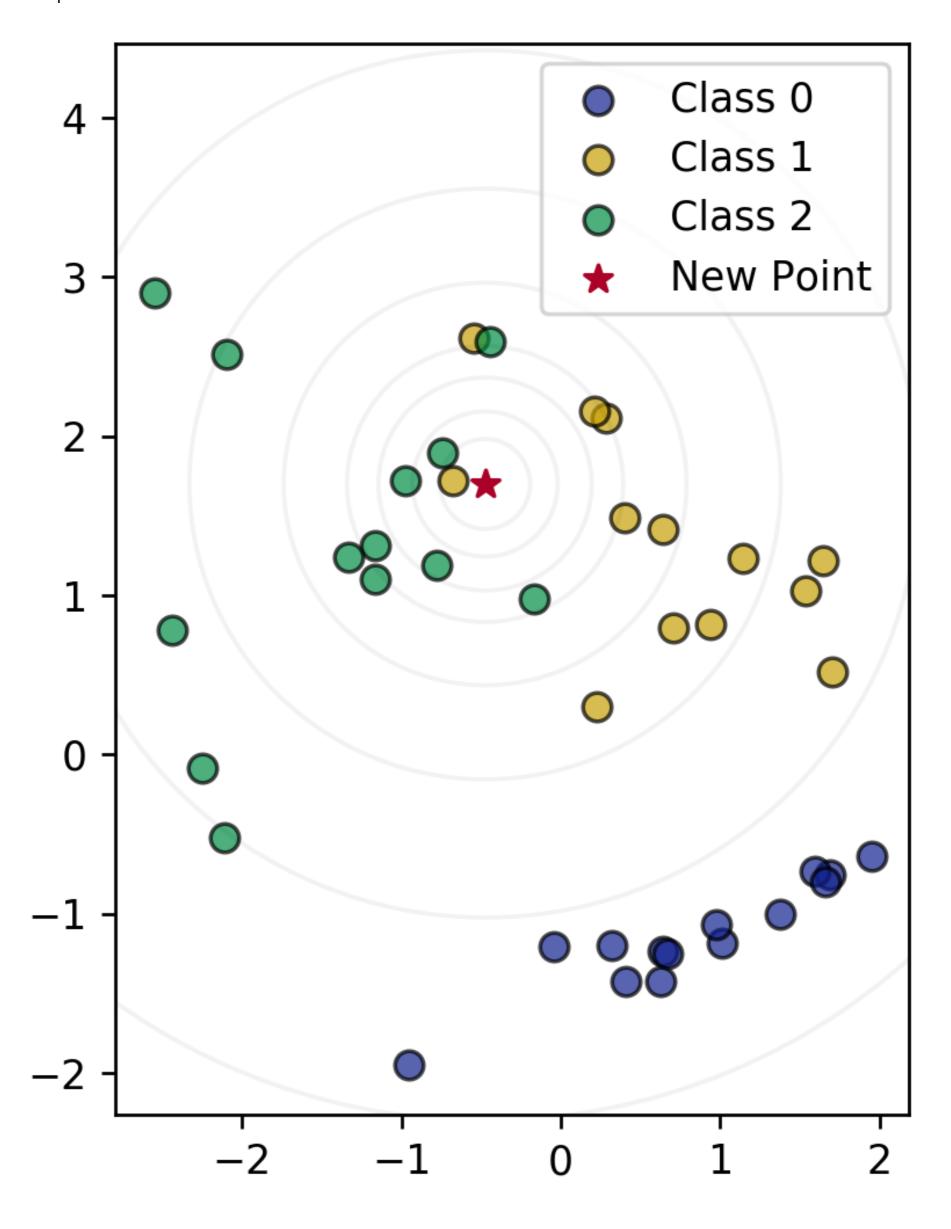
Quiz, 10 questions

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

3.

1 point

Select the option that correctly completes the sentence:		
Training	g a model using categorically labelled data to predict labels for new data is known as	
	Regression	
	Classification	
	Feature Extraction	
	Clustering	
1 point		
4. Select t	he option that correctly completes the sentence:	
_	g a model using labelled data where the labels are continuous quantities to predict labels for new known as	
	Feature Extraction	
	Clustering	
	Classification	
	Regression	
1 point		
5.		



• k=1: Class 1

• k=3: Class 2

	• k=1: Class 0
	• k=3: Class 2
	• k=1: Class 1
	• k=3: Class 0
	▼ K=3. Class 0
	• k=1: Class 0
	• k=3: Class 1
	o l. 1. Class 3
	• k=1: Class 2
	• k=3: Class 1
1 point	
6.	
	of the following is true for the nearest neighbor classifier (Select all that apply):
	Memorizes the entire training set
	A bish suvalva of lalas da ta a masus assentas da sisia a basus da m
	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
	Given a data instance to classify, computes the probability of each possible class using a
	statistical model of the input features
1 point	
7.	
	it important to examine your dataset as a first step in applying machine learning? (Select all that
	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
	It is not important
1 point	
The key	y purpose of splitting the dataset into training and test sets is:
	To estimate how well the learned model will generalize to new data
	To reduce the number of features we need to consider as input to the learning algorithm
	To speed up the training process
	To reduce the amount of labelled data needed for evaluating classifier accuracy
9. The pu	rpose of setting the random_state parameter in train_test_split is: (Select all that apply)  To split the data into similar subsets so that bias is not introduced into the final results  To make experiments easily reproducible by always using the same partitioning of the data  To avoid predictable splitting of the data  To avoid bias in data splitting
	a dataset with 10,000 observations and 50 features plus one label, what would be the dimensions ain, y_train, X_test, and y_test? Assume a train/test split of 75%/25%.  • X_train: (10000, 50)  • y_train: (10000, )

• X\_test: (10000, 50)

	• y_test: (10000, )
	• X_train: (7500, 50)
	• y_train: (7500, )
	• X_test: (2500, 50)
	• y_test: (2500, )
	• 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: (2500, )
	• y_train: (2500, 50)
	• X_test: (7500, )
	• y_test: (7500, 50)
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