# Module 1 Quiz

coursera.org/learn/python-machine-learning/exam/W3RV7/module-1-quiz

Quiz, 10 questions

10/10 points (100%)

Congratulations! You passed!

## Question 1

*Correct*

1 / 1
point

### 1. Question 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 _____.

## Question 2

*Correct*

1 / 1
point

### 2. Question 2

Select the option that correctly completes the sentence:

Modeling the features of an unlabeled dataset to find hidden structure is known as _____.

## Question 3

*Correct*

1 / 1
point

### 3. Question 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 _____.

## Question 4

*Correct*

1 / 1 point

## 4. Question 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 _____.

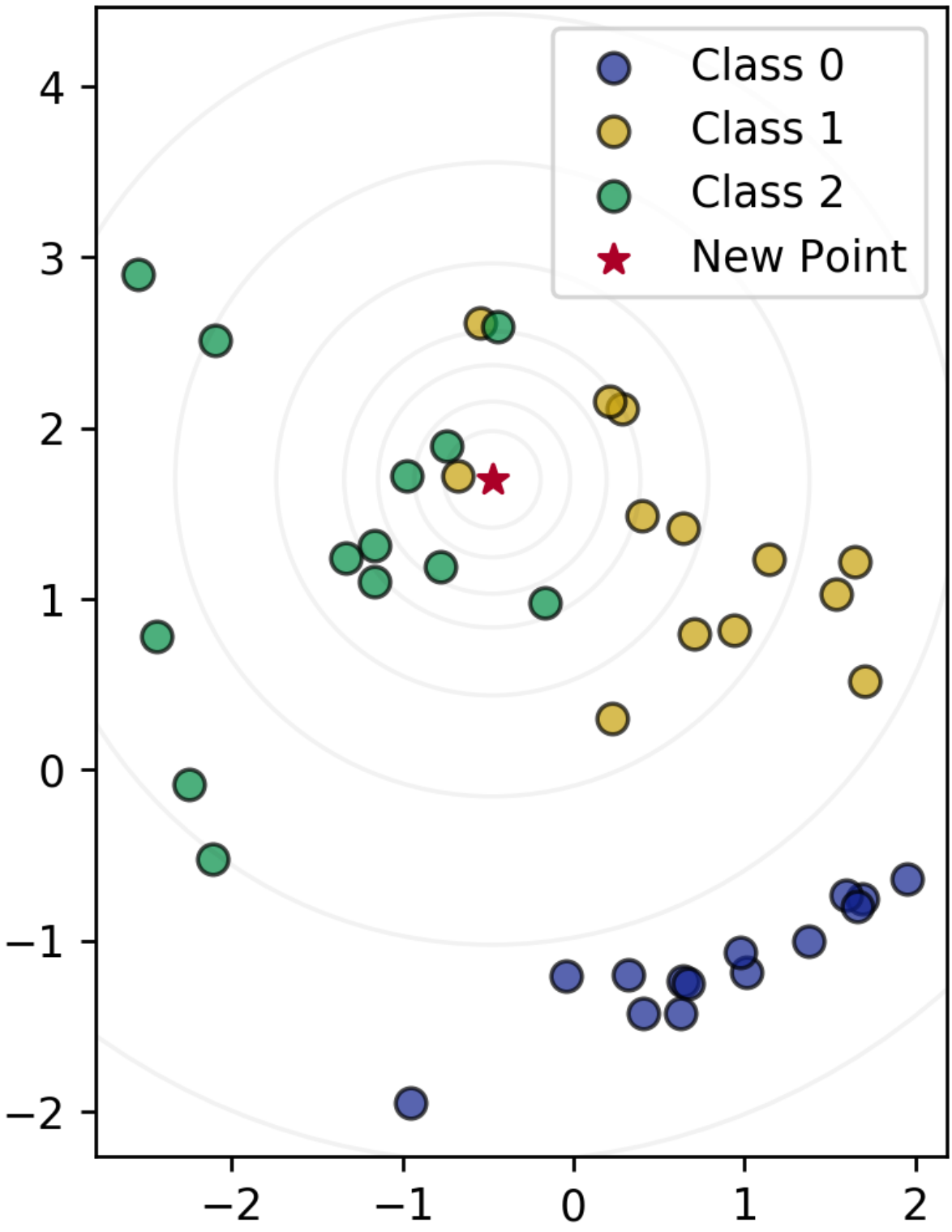
## Question 5

*Correct*

1 / 1 point

## 5. Question 5

Using the data for classes 0, 1, and 2 plotted below, what class would a KNeighborsClassifier classify the new point as for k = 1 and k = 3?




## Question 6

*Correct*

1 / 1
point

6. Question 6

Which of the following is true for the nearest neighbor classifier (Select all that apply):

## Question 7

*Correct*

1 / 1
point

## 7. Question 7

Why is it important to examine your dataset as a first step in applying machine learning? (Select all that apply):

## Question 8

*Correct*

1 / 1
point

## 8. Question 8

The key purpose of splitting the dataset into training and test sets is:

## Question 9

*Correct*

1 / 1
point

## 9. Question 9

The purpose of setting the random_state parameter in train_test_split is: (Select all that apply)

## Question 10

*Correct*

1 / 1
point

## 10. Question 10

Given 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%.