Week 3 Quiz

Question 1

1/1 point (ungraded)

The K-means algorithm is one of the most popular supervised machine learning algorithms

- ○ True
- ◉ False ✔

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Answers are displayed within the problem

Question 2

4/4 points (ungraded)

You would like to predict rent for a house based on the area (measured in square feet) and the number of bedrooms it has. For your machine algorithm to learn, you have compiled the following training data:

	Area	Bedrooms	Rent
House 1	1,500	2	$1,000
House 2	2,000	3	$2,500
House 3	1,800	2	$2,000

As you recall from the SageMaker/ML Terminology video, prediction models use input (Features) to determine output (Target). We are using this data to predict rent for a new house.

In the example above, the entire table of house information can be called our:

Dataset ✔**Answer:** Dataset

In the example above, one particular house can be called our:

Data point ✔**Answer:** Data point

In the example above, Area and Bedroom data can be called our:

Features ✔**Answer:** Features

In the example above, the Rent is our:

Target or Label ✔**Answer:** Target or Label

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Answers are displayed within the problem

Question 3

1/1 point (ungraded)

Which of the following models represent supervised learning algorithms? Select two.

- [x] Classification ✔
- [ ] Clustering
- [ ] Association Rules
- [x] Regression ✔

✔

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Answers are displayed within the problem

Question 4

1/1 point (ungraded)

Which statement is true about hyperparameter tuning?

- ○ Hyperparameter tuning is an unsupervised machine learning regression problem.
- ○ Hyperparameter tuning does not require any input values.
- ◉ Hyperparameter tuning uses regression to choose the best values to test. ✔
- ○ Hyperparameter tuning is a guaranteed way to improve your model.

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Answers are displayed within the problem

Question 5

1/1 point (ungraded)

Linear learner and XGBoost algorithms can be used in supervised learning models such as regression and classification.

- (●) True ✔
- ( ) False

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Answers are displayed within the problem