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# Week 5 Quiz

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#### Q1

10.0/10.0 points (graded)

Suppose you derived a classification model. The performance you obtained on the training set and the test set are both poor (large error). Check all that apply.

- ✓ The model suffers from high-bias.☐ The model overfits the data.
  - Adding more complex features may help derive a better model.



Submit

You have used 1 of 1 attempt

#### Q2

10.0/10.0 points (graded)

The in-sample error (error of a learning algorithm on the training set) is typically lower than the out-sample error on a test set.

- True ✔
- O False

False

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Q5

10.0/10.0 points (graded)

True	
● False <b>\</b>	
Submit	You have used 1 of 1 attempt
Q6	
alidation se	nts (graded) ation setting, and during the model selection stage, the validation examples in et (or the remaining one of the K folds when using cross-validation) are also ning examples:
O True	
● False <b>\</b>	
Submit	You have used 1 of 1 attempt
Q7 10.0/10.0 poir Fo build a lir equation.	nts (graded) near regression model, you can either use gradient descent or normal
● True ▼	

## Q8

10.0/10.0 points (graded)

Because it is straightforward to calculate in just one step, using normal equation is the preferred method when the feature space is large (e.g., 10,000 features).



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#### Q9

10.0/10.0 points (graded)

If the learning rate  $\alpha$  is too small, gradient descent converges quickly.

True● False ✓

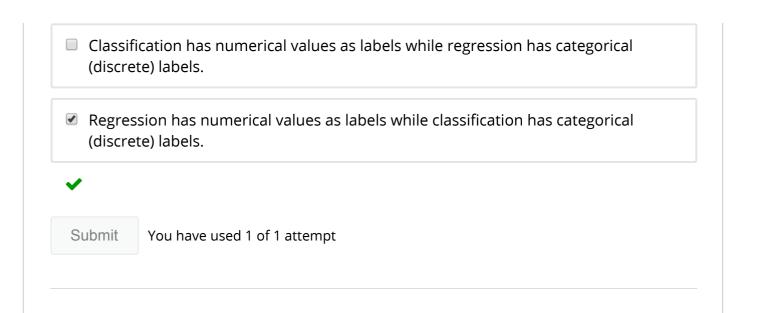
Submit You have used 1 of 1 attempt

## Q10

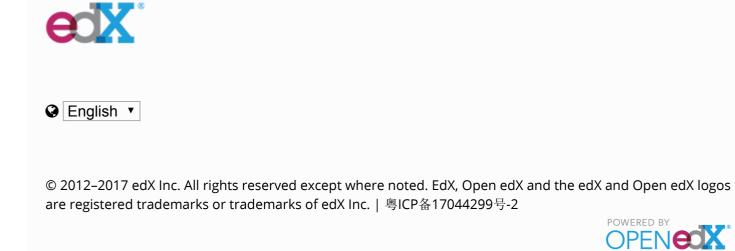
10.0/10.0 points (graded)

What is the difference between classification and regression? Check all that apply.

Classification requires labeled data, while regression requires unlabeled data.



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