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Week 5 Quiz

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

0.0/10.0 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.

O True			
O Falsa			
False			

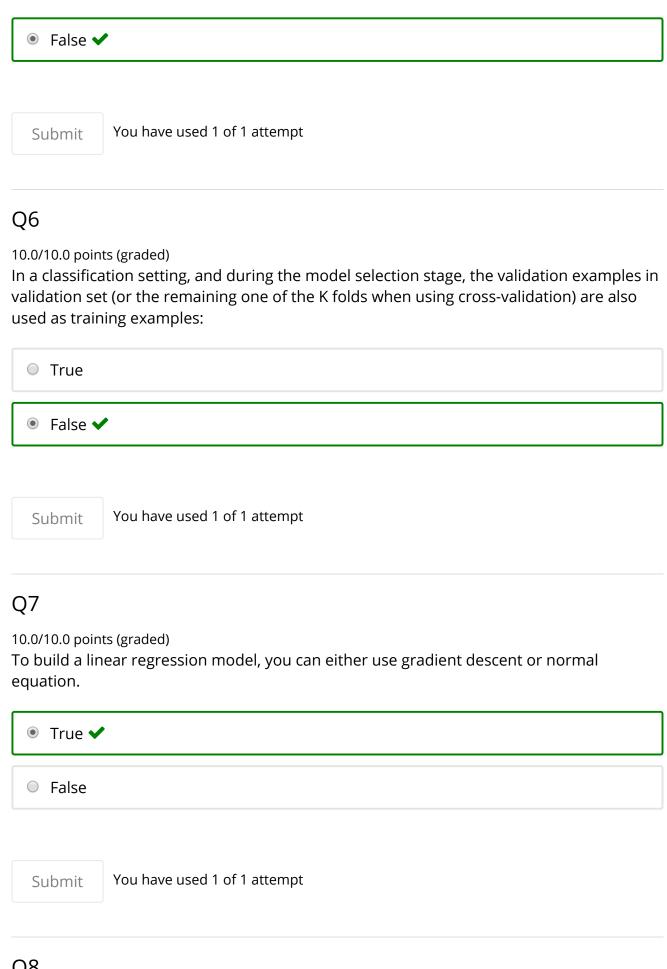
Submit You have used 0 of 1 attempt

Q3
10/10 points (graded) We can get multiple local optima if we perform a linear regression by minimizing the mean square error.
O True
● False ✔
Submit You have used 1 of 1 attempt
✓ Correct (10/10 points)
Q4
10.0/10.0 points (graded) With K-NN, one can represent only linear decision boundaries (that is the entire shape of the boundary is linear).
O True
● False ✔
Submit You have used 1 of 1 attempt
O5

10.0/10.0 points (graded)

If the performance of a classification model on the test set is poor (high out-of-sample error), one should re-calibrate the model parameters using the test set to achieve a better model.

O True



Q8

10.0/10.0 points (graded)

Because it is straightforward to calculate in iust one step. using normal equation is the

O True	
• False	✓
Submit	You have used 1 of 1 attempt
Q9	
10.0/10.0 poi If the learni	nts (graded) ng rate α is too small, gradient descent converges quickly.
O True	
False	<u> </u>
Submit	You have used 1 of 1 attempt
Q10 10.0/10.0 poi	
Q10 10.0/10.0 poi What is the	nts (graded)
Q10 10.0/10.0 poi What is the Classi Classi	nts (graded) difference between classification and regression? Check all that apply.
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Q10 10.0/10.0 poi What is the Classi Classi (discre	nts (graded) difference between classification and regression? Check all that apply. fication requires labeled data, while regression requires unlabeled data fication has numerical values as labels while regression has categorical ete) labels.

Submit

You have used 1 of 1 attempt

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