Graded Review Questions

Instructions for Review Questions

How much time do I have to complete these questions?
Unlimited. You can take as long you want to answer these questions.

Can I go back to the videos to check something, then come back to these Review Questions?
Yes, absolutely! These questions are for you to review what you've learned so far. Take your time.

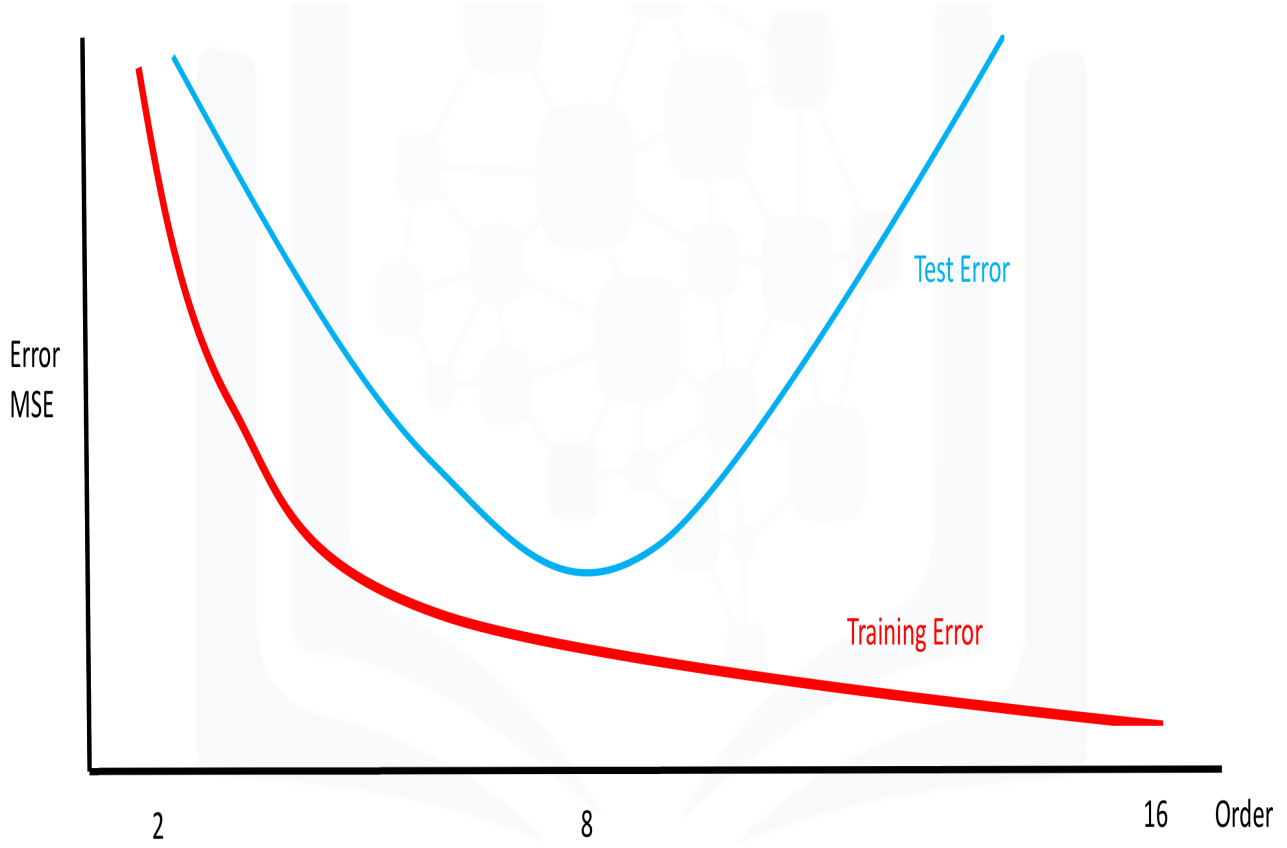
Do these Review Questions count towards my final grade?
Yes, all of the review questions, combined together, are worth 50% of your total mark.

How many chances do I get to answer these questions?
It depends:
- For True/False questions, you only get one (1) chance.
- For any other question (that is not True/False), you get two (2) chances.

How can I check my overall course grade?
You can check your grades by clicking on "**Progress**" in the top menu.

Question 1

1/1 point (graded)
In the following plot, the vertical access shows the mean square error andthe horizontal axis represents the order of the polynomial. The red line represents the training error the blue line is the test error. What is the best order of the polynomial given the possible choices in the horizontal axis?



- ○ 2
- ◉ 8
- ○ 16

✔

Enviar You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 2

1/1 point (graded)

What is the correct use of the "train_test_split" function such that 40% of the data samples will be utilized for testing, the parameter "random_state" is set to zero, and the input variables for the features and targets are_data, y_data respectively.

- ○ train_test_split(x_data, y_data, test_size=0, random_state=0.4)

- (●) train_test_split(x_data, y_data, test_size=0.4, random_state=0)
- ( ) train_test_split(x_data, y_data)

✔

Enviar You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 3

1/1 point (graded)

What is the output of `cross_val_score(lre, x_data, y_data, cv=2)`?

- ( ) The predicted values of the test data using cross validation.
- (●) The average R^2 on the test data for each of the two folds
- ( ) This function finds the free parameter alpha

✔

Enviar You have used 2 of 2 attempts

✔ Correct (1/1 point)

Question 4

1/1 point (graded)

What is the code to create a ridge regression object "RR" with an alpha term equal 10

- ( ) RR=LinearRegression(alpha=10)
- (●) RR=Ridge(alpha=10)

- ◯ RR=Ridge(alpha=1)

✔

Enviar You have used 1 of 2 attempts

✔ Correct (1/1 point)

Question 5

1/1 point (graded)

What dictionary value would we use to perform a grid search for the following values of alpha: 1,10, 100. No other parameter values should be tested

- ☐ alpha=[1,10,100]
- ☑ [{'alpha': [1,10,100]}]
- ☐ [{'alpha': [0.001,0.1,1, 10, 100, 1000,10000,100000,100000],'normalize':[True,False]}]

✔

Enviar You have used 1 of 2 attempts

✔ Correct (1/1 point)