

Graded Quiz: Model Refinement

TOTAL POINTS 5

1. What is the output of the following code?

1 point

```
1 cross_val_predict (lr2e, x_data, y_data, cv=3)
```

- ☒ 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

2. 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

1 point

☒ 1 `alpha=[1,10,100]`

☐ 1 `[{'alpha': [1,10,100]}]`

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

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Graded Quiz • 10 min

Due Aug 30, 12:29 PM IST

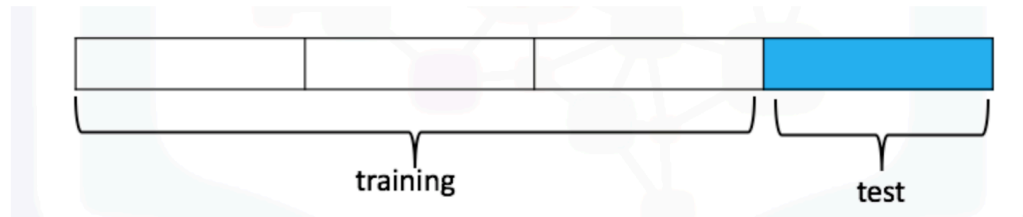
3. You train a ridge regression model, you get a R^2 of 1 on your training data and you get a R^2 of 0 on your validation data; what should you do?

1 point

- ☐ Your model is under fitting; so perform a polynomial transform
- ☐ Nothing, your model performs flawlessly on your validation data
- ☒ Your model is overfitting, so increase the parameter alpha

4. Consider the following diagram of 4 fold cross-validation. From the diagram how many folds are used for training?

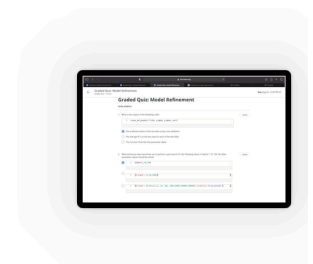
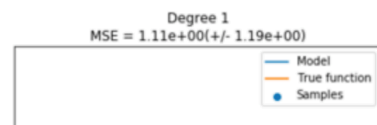
1 point



- ☐ 4
- ☐ 1
- ☒ 3

5. The following is an example of what?

1 point



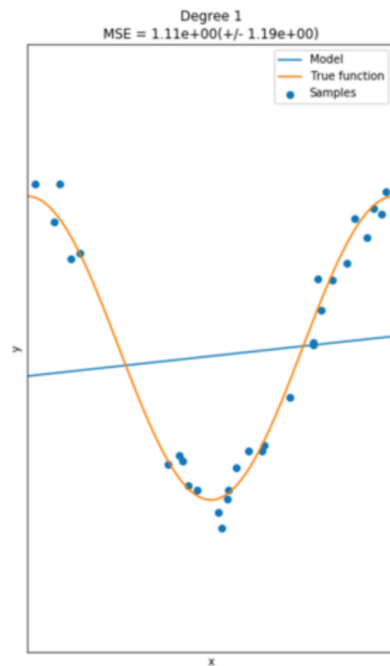
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5. The following is an example of what?

1 point



- ☐ Overfitting
- ☐ Perfect fit
- ☒ Underfitting

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