



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 to determine if normalization should be used and for testing the following values of alpha? 1,10, 100

1 point

☐

```
1 alpha=[1,10,100]
2 normalize=[True,False]
```

☒

```
1 [{'alpha':[1,10,100], 'normalize':[True,False]}]
```



Graded Quiz: Model Refinement

Graded Quiz • 10 min

Due Sep 27, 12:29 PM IST



```
1  {'alpha': [1,10,100]}
```

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



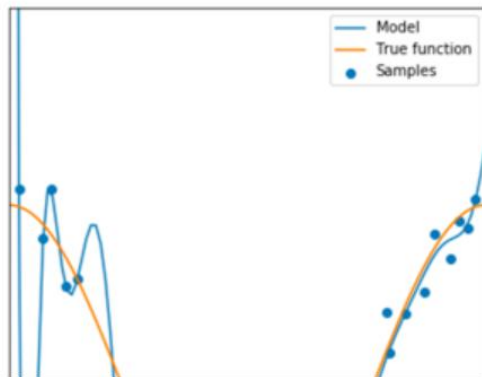
Nothing, your model performs flawlessly on your validation data



Your model is overfitting, so increase the parameter alpha

4. The following is an example of what?

1 point

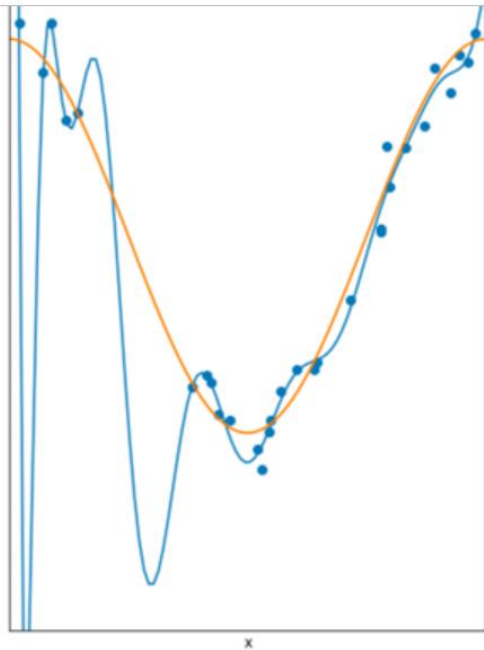




Graded Quiz: Model Refinement

Graded Quiz • 10 min

Due Sep 27, 12:29 PM IST



- ☐ Perfect fit
- ☐ Underfitting
- ☒ Overfitting

5. The following is an example of what?

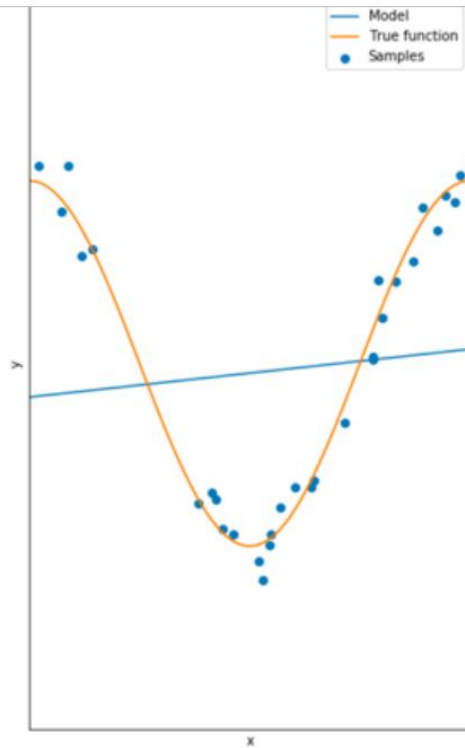
1 point



Graded Quiz: Model Refinement

Graded Quiz • 10 min

Due Sep 27, 12:29 PM IST



- ☐ Overfitting
- ☐ Perfect fit
- ☒ Underfitting