Graded Review Questions

Question 1

1/1 point (graded)

Let `X` be a dataframe with 100 rows and 5 columns, let `y` be the target with 100 samples,assuming all the relevant libraries and data have been imported, the following line of code has been executed:

```
LR = LinearRegression()
```

```
LR.fit(X, y)
```

```
yhat = LR.predict(X)
```

How many samples does `yhat` contain :

- ◯ 5
- ◯ 500
- ◉ 100
- ◯ 0

✔

Enviar You have used 1 of 2 attempts

Question 2

1/1 point (graded)

What value of R^2 (coefficient of determination) indicates your model performs best ?

- ◯ -100
- ◯ -1
- ◯ 0
- ◉ 1

✔

Enviar You have used 1 of 2 attempts

Question 3

1/1 point (graded)

What statement is true about Polynomial linear regression

- ◯ Polynomial linear regression is not linear in any way
- ◉ Although the predictor variables of Polynomial linear regression are not linear the relationship between the parameters or coefficients is linear.
- ◯ Polynomial linear regression uses wavelets

✔

Enviar You have used 1 of 2 attempts

Question 4

1/1 point (graded)

The larger the mean square error, the better your model has performed

- ◉ False

◯ True

✔

Enviar You have used 1 of 1 attempt

Question 5

1/1 point (graded)

Assume all the libraries are imported, `y` is the target and `X` is the features or dependent variables, consider the following lines of code:

```
Input = [('scale', StandardScaler()), ('model', LinearRegression())]

pipe = Pipeline(Input)

pipe.fit(X,y)

ypipe = pipe.predict(X)
```

What have we just done in the above code?

◯ Polynomial transform, Standardize the data, then perform a prediction using a linear regression model

◉ Standardize the data, then perform prediction using a linear regression model

◯ Polynomial transform then Standardize the data

✔

Enviar You have used 1 of 2 attempts