IBM: DA0101EN
**Analyzing Data with Python**

Help    sandipan_dey

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## Graded Review Questions
## Graded Review Questions Instructions

1. Time allowed: **Unlimited**

- We encourage you to go back and review the materials to find the right answer

- Please remember that the Review Questions are worth 50% of your final mark.

2. Attempts per question:

- One attempt - For True/False questions

- Two attempts - For any question other than True/False

3. Clicking the "**Final Check**" button when it appears, means your submission is **FINAL**.  You will **NOT** be able to resubmit your answer for that question ever again

4. Check your grades in the course at any time by clicking on the "Progress" ta

## 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

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ℹ  Answers are displayed within the problem

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## Question 2

1/1 point (graded)

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

- ☐ -100

- ☐ -1

- ☐ 0

- ☑ 1 ✔

✔

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ℹ  Answers are displayed within the problem

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## Question 3

1/1 point (graded)

Question 3 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

✔

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ℹ Answers are displayed within the problem

## Question 4

1/1 point (graded)
The Larger the Mean square error, the better your model performs :

☑ False ✔

☐ True

✔

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ℹ Answers are displayed within the problem

## 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 is the result of ypipe :

☐ 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

✔

Submit

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ℹ Answers are displayed within the problem

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