

Question 1

1/1 punto (calificado)

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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Question 2

1/1 punto (calificado)

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

☐ -100

☐ -1

☐ 0

☒ 1



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Question 3

1/1 punto (calificado)

Which 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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Question 4

0/1 punto (calificado)

The larger the mean squared error, the better your model performs:

- ☐ False
- ☒ True



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Question 5

1/1 punto (calificado)

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.



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