COGNITIVE CLASS.ai

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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

✔

Submit   You have used 2 of 2 attempts

✔ Correct (1/1 point)

Question 2

1/1 point (graded)
What value of R^2 (coefficient of determination) indicates your model performs best?

○ -100

○ -1

○ 0

● 1

✔

Submit   You have used 2 of 2 attempts

✔ Correct (1/1 point)

Question 3

1/1 point (graded)
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.

✔

Submit	You have used 2 of 2 attempts

✔ Correct (1/1 point)

Question 4

1/1 point (graded)
The larger the mean squared error, the better your model performs:

🔵 False

○ True

✔

Submit	You have used 1 of 1 attempt

✔ Correct (1/1 point)

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	You have used 2 of 2 attempts

✔ Correct (1/1 point)