Model Development

TOTAL POINTS 6

1. What does the following line of code do? 1 point

```
lm = LinearRegression()
```

- [ ] Fit a regression object lm
- [x] Create a linear regression object
- [ ] Predict a value

2. What steps do the following lines of code perform? 1 point

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

pipe=Pipeline(Input)

pipe.fit(Z,y)

ypipe=pipe.predict(Z)
```

- [ ] Standardize the data, then perform a polynomial transform on the features **Z**
- [ ] Find the correlation between **Z** and **y**
- [x] Standardize the data, then perform a prediction using a linear regression model using the features **Z** and targets **y**

3. We create a polynomial feature as follows "**PolynomialFeatures(degree=2)**"; what is the order of the polynomial? 1 point

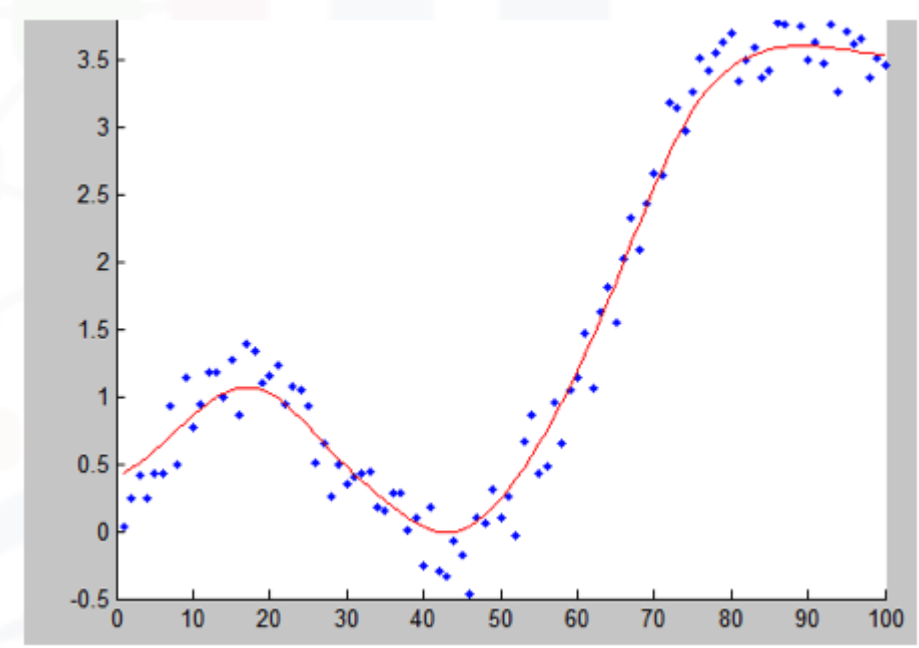
- [ ] 0
- [ ] 1

- [x] 2

4. What value of **R^2** (coefficient of determination) indicates your model performs best? 1 point

- [ ] -1
- [x] 1
- [ ] 0

5. Consider the plot of one independent and one dependent variable. This is an example of what? 1 point



- [ ] Polynomial Regression
- [x] Linear Regression
- [ ] Multiple Linear Regression

6. Consider the following equation: 1 point

$$y = b_0 + b_1 x$$

What is the parameter **b_0** (b subscript 0)?

- ○ The predictor or independent variable
- ○ The target or dependent variable
- ◉ The intercept
- ○ The slope

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