Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 75%. We keep your highest score.

Next item $\, o \,$

ι.	Consider the following lines of code. What is the name of the column that contains the target values?	1/1 point
	<pre>from sklearn.linear_model import LinearRegression lm=LinearRegression()</pre>	
	<pre>X = df[['highway-mpg']]</pre>	
	Y = df['price']	
	<pre>lm.fit(X, Y)</pre>	
	Yhat=lm.predict(X)	
	O fit	
	(in price)	
	O Yhat	
	O 'highway-mpg'	
	Correct! This is the column name of the target values.	
2.	Consider the following Residual Plot . Which of the following is a correct interpretation?	1/1 point
		2, 2 point
	2	
	o sidual	
	-2	
	4	
	0 2 4 6 8 10 X	
	 Since the values are randomly distributed on the graph, it indicates the linear model is a good fit. Since the number of values above the line is the same as the number below the line, it indicates the linear model is not a good fit. Correct Correct! Random distribution of the residuals around the line indicates the linear model is not a good fit. 	
3.	Which statement is most accurate about a higher-order polynomial model than a linear one?	1/1 point
	○ When you compare their R ² values, the smaller value indicates the better fit.	
	You cannot compare their R ² values to decide which is a better fit.	
	When you compare their R ² values, the larger value indicates the better fit.	
	O The linear model will usually appear to fit the data better.	
	○ Correct Correct! Higher-order polynomials usually fit the data better because they have more curvature, so the R ² value does not provide this information.	
1.	Consider the following lines of code. What value does the variable out contain?	1/1 point
	<pre>lm = LinearRegression()</pre>	
	<pre>X = df[['highway-mpg']]</pre>	
	Y = df['price']	
	<pre>lm.fit(X, Y)</pre>	
	out=lm.score(X,Y)	
	A multiple linear regression Mean Squared Error with respect to X	
	The Coefficient of Determination	
	Mean Square Error with respect to y.	
	 Correct Correct! The score() method will calculate the coefficient of determination of a linear regression model. 	