Congratulations! You passed!

Grade Latest Submission received 100% Grade 100%

To pass 80% or higher

Go to next item

1.	A data professional at a car rental agency uses a regression technique to learn about how customers engage with various sections of the company website. They estimate the linear relationship between one continuous dependent variable and three independent variables. What technique are they using?	1/1 point
	One hot encoding	
	Interaction terms Multiple linear regression	
	Simple linear regression	
	⊘ Correct	
2.	Which of the following are examples of categorical variables? Select all that apply.	1/1 point
	✓ Shirt country of manufacture	
	⊙ Correct	
	☐ Shirt inventory ✓ Shirt size	
	⊙ Correct	
	✓ Shirt type	
	⊙ Correct	
3.	Fill in the blank: The no multicollinearity assumption states that no twovariables can be highly correlated	1/1 point
	with each other.	z/zpome
	independent continuous	
	O categorical	
	O dependent	
	⊙ Correct	
4.	What term represents how the relationship between two independent variables is associated with changes in the mean of the dependent variable?	1/1 point
	O Normality term	
	O Coefficient term	
	Interaction term Selection term	
	⊙ Correct	
5.	A data professional uses an evaluation metric that penalizes unnecessary explanatory variables. Which metric are	1/1 point
	they using?	
	○ Link function ② Adjusted R squared	
	Ordinary least squares	
	O Holdout sampling	
	⊙ Correct	
6.	What stepwise variable selection process begins with the null model and zero independent variables?	1/1 point
	Forward selection Holdout elimination	
	C Extra-sum-of-squares F-test	
	O Backward elimination	
	⊙ Correct	
7.	A data professional reviews model predictions for a human resources project. They discover that the model performs poorly on both the training data and the test holdout data, consistently predicting figures that are too	1/1 point
	low. This leads to inaccurate estimates about employee retention. What quality does this model have too much of?	
	Bias	
	○ Entropy ○ Leakage	
	O Variance	
	⊙ Correct	
8.	What regularization technique is recommended when working with large datasets and when there is uncertainty as to whother yad ables should drop out of the model?	1/1 point
	as to whether variables should drop out of the model? © Elastic net regression	
	Ridge regression	
	C Lasso regression	
	○ Backward regression ○ Correct	
	O	