Review Test Submission: Problem Set #2

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Course 2024GSP_ANA_510_02 Statistical Modeling	
Test Problem Set #2 Started 4/5/24 12:58 PM	
Submitted 4/6/24 1:05 PM	
Due Date 4/7/24 11:59 PM Status Completed	
Attempt 75 out of 100 points	
Score Time Elapsed 24 hours, 6 minutes	
Instructions You should answer all questions first, either using paper and pencil or another computer program such as grett. Then, enter your answers in the online assignment. I have setup this assignment so you will have three chances to take it, one to get the questi	ons and one to really enter your
answers. Be sure to keep track of your work and answers. If for any reason I have to reset your assignment it will wipe out all the work you did before! There are a variety of types of questions. You should select the best choice or choices. If you are entering a numeric value you should round your answer to two decimal places unless there are other specific instructions for a specific question. Not all ques	liona are worth the come number
There is a tempor up you decided not contain than others. If you added seed, the last obtained or closures, if you are decided or closures, if you are decided not contain a present of points, i.e. some questions are worth more points than others. If you are any questions are additional information in the short description below.	acid are worth the same number
Question 1	
	5 out of 5 points
How many observations are there in the contract/road construction dataset?	
Question 2	0 out of 5 points
How many independent variables are in the contract data/road construction dataset?	
Question 3	5 out of 5 points
Fill in the exact variable name of the dependent variable in the contract data/road construction dataset. Be careful, this field is case sensitive!	
Question 4	5 out of 5 points
	5 out of 5 points
The possible values for the dependent variable, BIDStatusy are 0 or 1.	
Question 5	5 out of 5 points
If BIDStatusy is coded with the number 1 that indicates the bid is a fixed bid. If BIDStatusy is coded with the number 0 that indicates the bid is a competitive bid.	
Question 6	0 out of 5 points
The reported mean value of BIDStatusy, 0.38710, indicates that (select the best choice to complete this sentence).	
Question 7	5 out of 5 points
	5 out of 5 points
The output of the logit model built for the contract data/road construction dataset indicates that the model is able to accurately predict% of all cases (or observations). Note that the answer is in a percentage from the model output.	
Question 8	5 out of 5 points
The logit model for the contract data/road construction dataset results in Type II errors.	
Question 9	5 out of 5 points
A Type li error for the contract data/road construction logit model means that (select the best choice below to complete this sentence).	
Question 10	5 out of 5 points
For the contract data/road construction logit model as reported in the textbook Example 9.5, the (Hosmer and Lemeshow Goodness-of-Fit) P-value equal to 0.2324 which is greater than the 0.05 level of significance indicates that(select the ch	pice below that best completes
this sentence). Note that I have redirected you to the textbook output for this question because we do not typically compute the Hosmer and Lemeshow Goodness-of-Fit test.	side below that best completes
Question 11	5 out of 5 points
	3 out of 3 points
The number of observations in the cokeVsPepsi dataset is	
Question 12	0 out of 5 points
The number of variables in the cokeVsPepsi dataset is	
Question 13	5 out of 5 points
For the Coke-Pepsi dataset, the three models produce virtually identical results.	
Question 14	
	5 out of 5 points
Although the probit and logit models built for the coke-pepsi dataset are different, both models result in the same error rates. (Hint, look for the confusion tables in the model output!)	
Question 15	5 out of 5 points
The dependent variable, coke, in the cokeVsPepsi dataset means that (select the choice below that best completes this sentence).	,
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Question 16	0 out of 5 points
The number of correctly predicted "cases" by either the probit or logit models is (Enter the number of correct cases this time, NOT the percent.)	
Question 17	
	0 out of 5 points
The number of "cases" or observations that were predicted to have coke chosen when pepsi should have been chosen is (Hint, look at the confusion tables in the model output!)	

Question 18 5 out of 5 points

Question 19 5 out of 5 points

Both probit and logit models can be used to predict "choice". This is due to their ability to predict "discrete" or binary outcomes. (Note, that this does NOT include multinomial models which involve more than 2 choices, e.g. either/or problems.)

Question 20 5 out of 5 points

To keep choice probability, "p," within the interval [0, 1], both the probit and logit models are based on a nonlinear "S-curve" or S-shaped relationship between "x" and "p". However, where the probit function is related to the standard normal probability distribution, the logit function is related to the sigmoid function.

Saturday, April 6, 2024 1:05:15 PM EDT

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