Module & Forder Quit Legistic Regression - Bask ' Smidsimment' Plan III - Bask ' Smidsimment	
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1. The output of a logistic regression model applied to a data sample	1/1 point
s the log odds of the sample, which you can use for interpretive purposes.	
tells you the odds of the sample belonging to a certain class.	
she probability of the sample being in a certain class.	
tells you which class the sample belongs to.	
○ Carrect Correct. Logistic regression outputs a value between zero and one which can be thought of as the probability of the sample being in a certain class.	
2. Describe how any binary classification model can be extended from its basic form on two classes, to work on multiple classes.	1/1 point
Use process of elimination to discard any unimportant classes.	
Fit the binary classifier to all of the classes simultaneously.	
Use the coefficients from a linear regression model to weight the classes.	
(9) Use a one-versus all technique, where for each class you lift a binary classifier to that class versus all of the other classes.	
© Cervet. Correct. With each class, we've going to be estimating the binary legistic regression versus all other classes. And the estimated category is going to be the class with the highest estimated probability for each one of those one-vensus-all classifiers.	
 Which tool is most appropriate for measuring the performance of a classifier on unbalanced classes? 	1/1 point
The Receiver Operating Characteristic (ROC) curve. The false positive rate.	
Of the true positive rate.	
The precision-recall curve.	
⊙ correct	
Correct. The precision-recall curve displays the precision vs recall for different probability thresholds. Both precision and recall are focused on the positive class, which is normally the minority class in imbalanced classification problems.	
4. (True/False) One of the requirements of logistic regression is that you need a variable with two classes.	1/1 point
○ Yrue	
False	
© Cented. Correct You can use a multinomial logistic regression if you have more than two classes. You can review the demo in lesson 2 of this module, in which you did a multinomial logistic to predict a target variable with more than two classes.	
	7.77 miles
(True/False) The shape of ROC curves are the leading indicator of an overfitted logistic regression. True	1/1 point
O false	
© Correct	
Correct! Although overfitted models tend to have really high PIOC curves with high values of area under the curve, a classification matrix or a measure like accuracy can be more reliable. Please review the lesson Confusion Motiv, Accuracy, Specificity, Precision, and Recall.	
6. Consider this scenario for Questions 3 to 7.	1/1 point
You are evaluating a binary classifier. There are 50 positive outcomes in the test data, and 100 observations. Using a 50% threshold, the classifier predicts 40 positive outcomes, of which 10 are incorrect.	
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