

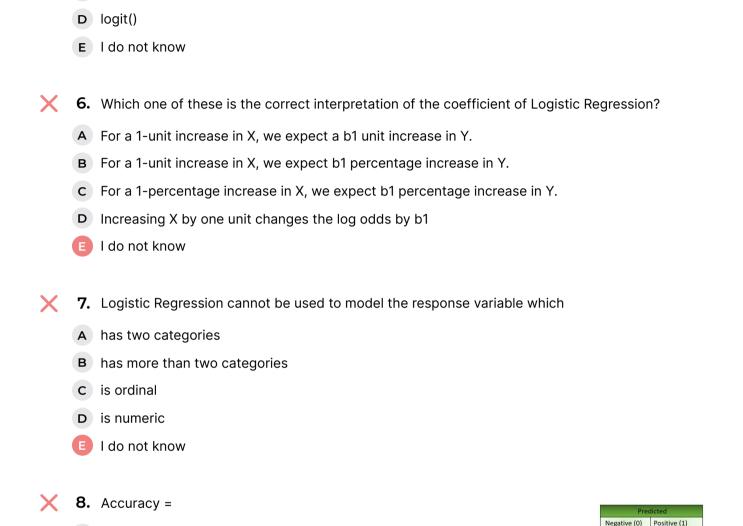
DM-Quiz-2020-Q3

30.77% (4/13)



- Logistic Regression Model is used to describe
 - A Relationship between one categorical dependent variable and one or more (any) explanatory variables
 - B Relationship between one numeric dependent variable and one or more (any) explanatory variables
 - C Relationship between one categorical dependent variable and one explanatory variable
 - D Relationship between one categorical dependent variable and one or more numeric explanatory variables
 - E I do not know
- **2.** Why Linear Regression cannot be used to predict the binary response variable?
 - A Some of the estimates might be outside the [0,1] interval
 - B Coefficients of linear regression models do not exist
 - c There will be the multicollinearity
 - All of the variants
 - E I do not know
- ✓ 3. The most common approach to estimate coefficients of logistic regression is
 - A The Maximum Likelihood
 - **B** Ordinary Least Squares
 - c Generalized Method of Moments
 - D I do not know
- X 4. The model of Logistic Regression is

 - **B** $\ln(y) = e^{(xb)}/(1+e^{(xb)})$
 - C $Pr(y=1)=e^{(xb)}/(1+e^{(xb)})$
 - **D** I do not know



5. We can estimate Logistic Regression in R using the function

A lm()

B glm()

C flm()

	9. (W)
Pred	licted
Negative (0)	Positive (1)

TN

FP

TP

Positive (1)

Negative (0)

Positive (1)

В	TP/(TP+FN)
C	TN/(TN+FP)

D I do not know

A (TP+TN)/Total

9. Sensitivity =

A (TP+TN)/Total

B TP/(TP+FN)

c TN/(TN+FP)

D I do not know

	A	Type 1 error (false positive)
	В	Type 2 error (false negative)
	C	I do not know
×	11.	1Suppose the data with the number of observations equals to 142, where 89 observations belong to class 1, and another part to 0. Let the level 1 is the positive case. We performed the logit model and obtained the accuracy = 60%. Does the model have a high predictive power?
	Α	Yes, because it is more than the non-information rate
	В	No, because it is less than the non-information rate
	C	Yes, because it is less than the non-information rate
	D	No, as a result of other reasons.
	E	The non-information rate? What is it?
X	12.	Is Logistic regression a supervised machine learning algorithm?
	Α	Yes
	В	No
	C	I do not know
X	13.	By using MLE for estimating the coefficient in the Logistic Regression model
	Α	we can obtain the unique formula for coefficients
	В	we can obtain the unique formula for coefficients only for 1-D case
	C	we cannot obtain the unique formula for coefficients
	D	I do not know

✓ 10. Your lecturer decided that you are cheating while you are not. It is