## Logistic Regression Interview Questions

These questions can be found on our website, <a href="https://vitalflux.com">https://vitalflux.com</a>, on this page, <a href="https://vitalflux.com">30 Logistic</a> <a href="https://vitalflux.com">Regression Questions and Practice Tests</a>.

1.	Logistic regression is used to predict valued output?				
	<ul> <li>Continuous</li> </ul>				
	<ul><li>Categorical</li></ul>				
2.	How much marks a strudent can get in a competitive exam based on hours of study can				
	be solved using regression model				
	o Multi-linear				
	o Logistic				
3.	Logistic regression is when the observed outcome of dependent variable can				
	have only two values such as 0 and 1 or success and failure				
	o <mark>Binomial</mark>				
	<ul> <li>Multinomial</li> </ul>				
	o Ordinal				
4.	Whether a strudent will pass or fail in the competitive exam based on hours of study can				
	be solved using regression model				
	<ul> <li>Multi-linear</li> </ul>				
	o <mark> Logistic</mark>				
5.					
	outcome variable is categorical				
	o Logistic, Linear				
	○ Linear, Logistic				
6.	In logistic regression, the goal is to predict				
	Actual value of outcome dependent variable				
_	Odds of outcome dependent variable				
7.	Which of the following can be used to evaluate the performance of logistic regression				
	model?				
	Adjusted R-Squared				
0	O AIC				
ð.	Which of the following is link function in logistic regression				
	o Identity				
0	C Logistic regression is when the charmod outcome of dependent variable can				
9.	Logistic regression is when the observed outcome of dependent variable can have multiple possible types				
	Binomial				
	Multinomial				
	Ordinal				
10	In logistic regression, following technique is used to measure the goodness of the fit				
10.	Sum of squares calculations				
	Deviance calculations				
11	Which of the following can be used to evaluate the performance of logistic regression				
	model?				

	0	AIC						
	o	Null and Residual Deviance						
	o Both of the above							
	0	None of the above						
12. Given two model with different AIC value, which one would be preferred model?								
o One with higher AIC value								
	0	One with lower AIC value						
13.	Deviance is a	measure of difference between a model and the model						
	0	saturated, fitted						
	0	Fitted, saturated						
14.	Logistic regres	ssion is when the observed outcome of dependent variable are						
	ordered							
	0	Binomial						
	0	Multinomial						
	0	Ordinal						
15.	Logit transforn	nation is log of						
	0	Odds of the event happening for different levels of each independent						
		variable						
	0	Ratio of odds of the event happening for different levels of each						
		independent variable						
16.	Logistic function	on is						
	0							
	0	Probability that dependent variable equals a case						
17.	Deviance is is	a function of						
	0	Exponential function of likelihood ratio						
	0	Logrithmic function of likelihood ratio						
18.	The odds of th	be dependent variable equaling a case (given some linear combination x of						
		is equivalent to						
		Log function of the linear regression expression						
		Exponential function of the linear regression function						
19.		pefficients in logistic regression are estimated using						
	0	Ordinary least squares method						
	O	Maximum likelihood estimation method						
20.	is	analogous to in linear regression						
	0	Sum of squares calculations, deviance						
	0	Deviance, sum of squares calculations						
21.	Deviance can	be shown to follow						
		t-distribution						
	0	F-distribution						
	0	Chi-square distribution						
	0	None of the above						
22.	value	of deviance represents the better fit of model						
	0	Higher						
	0	Lower						
23.	If the model de	eviance is significantly than the null deviance then one can						
	conclude that the predictor or set of predictors significantly improved model fit							
	0	Smaller						
	0	Larner						

24. Which of the follow	ing is analogou	s to R-Squared	for logistic regression	on				
o Like	elihood ration R	-squared						
o McI	Fadden R-squar	red						
o Cox	and Snell R-So	quared						
o All o	of the above							
25. Estimation in logistic regression chooses the parameters that the likelihood								
of observing the sample values								
o Min	imizes							
o Max	ximizes							
26. Which of the following tests can be used to assess whether the logistic regression model								
is well calibrated								
	smer-Lemeshow	v test						
_	C Curve							
	h of the above							
27. ROC related with ROC curve stands for								
`	gression Optimiz							
	gression Operat		tic					
	ceiver Operating							
28. Which of the following is used to identify the best threshold for separating positive and								
negative classes								
	smer-Lemeshow	v test						
	C Curve							
	h of the above							
29. ROC curve is a plo								
	nsitivity, 1-speci							
·	pecificity, Sensi	•						
30 the value of AUC, better is the prediction power of the model								
o Lov								
o <mark> Hig</mark>	<mark>ner</mark>							