



Announcements

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Mentor

Unit 10 - Week 9

How does an NPTEL online

Course outline

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Confusion matrix and ROC- I

Confusion Matrix and ROC-II

Performance of Logistic

Regression Analysis Model

 Regression Analysis Model Building (Interaction)- II

Important data files

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Model-III

Building - I

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NPTEL » Data Analytics with Python

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	Due on 2020-04-01, 23
Select correct statement –	
Logistic regression model gives probability outcome	
Default cut – off value for ROC curve is 0.5	
The confusion matrix is used to compare actual outcome with predicted output	
All of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
All of the above	
2) Which statement satisfy occurrence of type 1 error -	
Number of cases (class 0) classified incorrectly as class 1	
Number of cases (class 1) classified incorrectly	
Number of cases (class 0) classified incorrectly	
Number of cases (class 1) classified incorrectly as class-0	
No, the answer is incorrect. Score: 0	
Accepted Answers: Number of cases (class 0) classified incorrectly as class 1	
3) Sensitivity and specificity are defined as –	
○ % of class 1 cases correctly classified	
% of class0 cases correctly classified	
% of class 1 cases correctly classified and % of class0 cases correctly classified	
% of class 0 cases correctly classified and % of class 1 cases correctly classified	
No, the answer is incorrect. Score: 0	
Accepted Answers: % of class 1 cases correctly classified and % of class0 cases correctly classified	
4) Select the correct relationship between threshold value, sensitivity and specificity –	
Low threshold value gives low specificity and high sensitivity	
Low threshold value gives high specificity and low sensitivity	
High threshold value gives low specificity and high sensitivity	
High threshold value gives high specificity and high sensitivity	
No, the answer is incorrect. Score: 0	
Accepted Answers: Low threshold value gives low specificity and high sensitivity	
5) Meaning of 1 (one) for AUC value -	
Good prediction	
Best prediction	
Perfect prediction	

Score: 0 Accepted Answers:

No, the answer is incorrect.

Perfect prediction

Choose incorrect options for ROC plot -

All points, which reside on the upper-diagonal region have more FPR then TPR 7) Which method is used to get basic statistical details such as central tendency, dispersion and shape of dataset's distribution

All points, which reside on the upper-diagonal region are corresponding to good classifiers

All points, which reside on the lower-diagonal region are corresponding to worse classifiers

All points, which reside on the upper-diagonal region have lower FPR then TPR

All points, which reside on the upper-diagonal region have more FPR then TPR

Numpy.unique()

ravel() Dataframe.describe()

Classification_report()

No, the answer is incorrect. Score: 0

Accepted Answers: Dataframe.describe()

8) Model building is used for –

Defining the relationship between each independent variable by using an estimated regression equation. Operation Defining the relationship between dependent and independent variables by using an estimated regression equation

Establishing the relationship between dependent variables only by using an estimated regression equation

Establishing the relationship between each parameter variable by using an estimated regression equation

No, the answer is incorrect. Score: 0

Accepted Answers:

Defining the relationship between dependent and independent variables by using an estimated regression equation

Choose the correct statement –

In multiple regression analysis, the term linear does not imply that the relationship between the dependent and the independent variables is linear

The standardized residual plot may suggest the need for a curvilinear relationship. Both (a) and (b)

When the interaction between two variables is present, we have to study the joint effect of both the variables to draw a meaningful conclusion

For model building process, developing an estimated regression equation is not mandatory

No, the answer is incorrect. Score: 0 Accepted Answers:

Both (a) and (b)

Choose the correct option for interaction effect-

When the interaction between two variables is present, we can study the effect of one variable on the response independently of the other variable.

1 point

1 point

1 point

1 point

1 point

 None of these No, the answer is incorrect.

Both (a) and (b)

Score: 0 Accepted Answers: When the interaction between two variables is present, we have to study the joint effect of both the

variables to draw a meaningful conclusion