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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Business analytics and data mining Modeling using R (course)



Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

- Lecture 21PREDICTIONPERFORMANCE(unit?unit=49&lesson=50)
- Lecture 22
 MULTIPLE
 LINEAR
 REGRESSION
 (unit?
 unit=49&lesson=51)

Week 5: Assignment 5

The due date for submitting this assignment has passed.

Due on 2023-03-01, 23:59 IST.

1 point

Assignment submitted on 2023-03-01, 19:59 IST

- - The focus is on reducing root-mean-square error of the continuous output variable
 - The focus is on reducing misclassification error of the continuous output variable
 - Prediction performance is same as classification performance

1) Which of the following is correct about prediction performance?

None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

The focus is on reducing root-mean-square error of the continuous output variable

2) 1 point

Which of the following is true about the statements below given?

- I: 'Goodness of fit' focuses on how well the model fits the data
- II: The model obtained in data mining is certainly same as the one obtained in statistical setting
 - Only statement I is correct
 - Only statement II is correct
 - Both the statements are correct
 - None of the above

Yes, the answer is correct.

/23, 7:20 PM
 Lecture 23 MULTIPLE LINEAR REGRESSION PART-2 (unit? unit=49&lesson=52)
Lecture 24 MULTIPLE LINEAR REGRESSION PART-3 (unit? unit=49&lesson=53)
 Lecture 25 MULTIPLE LINEAR REGRESSION PART-4 (unit? unit=49&lesson=54)
Quiz: Week 5: Assignment5(assessment?name=127)
Solution for Week 5 : Assignment 5

(unit? unit=49&lesson=55)

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

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Score: 1 Accepted Answers: Only statement I is correct	
3) Which partition is used for the performance evaluation of the data mining model?	1 point
Training partition	
○ Validation partition	
Test partition	
None of the above	
Yes, the answer is correct. Score: 1	
Accepted Answers: Test partition	
4) What does the negative overall average error indicate?	1 point
On an average level, the model is over predicting the observations	
On an average level, the model is under predicting the observations	
On an average level, the model has no impact on predicting the observations	
None of the above	
No, the answer is incorrect. Score: 0	
Accepted Answers: On an average level, the model is over predicting the observations	
5) Consider the following statements and choose the correct option: Assertion: RMSE is one of the most preferred metrics of predictive accuracy Reasoning: It is computed in the same unit as the outcome variable and similar to the error of estimate	1 point standard
Assertion is correct and reasoning gives the correct explanation	
Assertion is correct but reasoning does not give the correct explanation	
Assertion is incorrect but reasoning is correct	
Both assertion and reasoning are incorrect	
Yes, the answer is correct. Score: 1	
Accepted Answers: Assertion is correct and reasoning gives the correct explanation	
6) Which of the following is true about predictive modelling using multiple linear regression?	1 point
Used to estimate best-fit model	
Used to estimate values of outcome variable for new records	
Prediction performance is of secondary importance	

Score: 1
Accepted Answers:
Used to estimate values of outcome variable for new records
7) Which of the following is correct about OLS? 1 point
OLS computes the sample estimates which minimises the sum of deviations between predicted and actual values
OLS computes the sample estimates which maximises the sum of deviations between predicted and actual values
 OLS computes the sample estimates which minimises the sum of squared deviation between predicted and actual values
OLS computes the sample estimates which maximises the sum of squared deviation between predicted and actual values
Yes, the answer is correct. Score: 1
Accepted Answers: OLS computes the sample estimates which minimises the sum of squared deviation between predicted and actual values
8) Which of the following assumptions of multiple linear regression can be overlooked <i>1 point</i> in data mining?
Noise follows a normal distribution
Observations are independent
Linear relationship holds true
Heteroscedasticity
No, the answer is incorrect. Score: 0
Accepted Answers:
Noise follows a normal distribution
9) Which of the following statements is incorrect with respect to explanatory 1 point modelling?
The final model selected may not have the best predictive accuracy
Full sample is used to estimate the final model
There is no previously assumed structure
None of the above
No, the answer is incorrect. Score: 0
Accepted Answers: There is no previously assumed structure
10) Which of the following visualisation techniques can be used for measuring predictive 1 point performance of a model?
O Decile chart
○ Histogram
○ Lift curve

Both a and c

Yes, the answer is correct. Score: 1

Accepted Answers:

Both a and c