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## Unit 9 - Week 7

### Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

☐ Cross Validation (unit? unit=55&lesson=54)

☐ Multiple Linear Regression Modelling Building and Selection (unit? unit=55&lesson=56)

## Practice Assignment 7

The due date for submitting this assignment has passed. **Due on 2020-03-18, 23:59 IST.**  
As per our records you have not submitted this assignment.

**Note : This assignment is only for practice purpose and it will not be counted towards the Final score**

1) Which one of the following is called as the odds ratio?

1 point

- ☐ The ratio of the probability of an event occurring to the probability of the event not occurring
- ☐ The ratio of the probability of an event not occurring to the probability of the event occurring
- ☐ The probability of an event occurring
- ☐ The probability of an event not occurring

No, the answer is incorrect.

Score: 0

Accepted Answers:

*The ratio of the probability of an event occurring to the probability of the event not occurring*

2) In confusion matrix, the misclassification rate is given by

1 point

- ☐  $\frac{\text{False Negative} + \text{False positive}}{\text{Total number of samples}}$
- ☐  $\frac{\text{True Negative} + \text{False positive}}{\text{Total number of samples}}$
- ☐  $\frac{\text{False Negative} + \text{True positive}}{\text{Total number of samples}}$
- ☐  $\frac{\text{True Negative} + \text{True positive}}{\text{Total number of samples}}$

☐ Classification (unit? unit=55&lesson=57)

☐ Logistic Regression (unit? unit=55&lesson=58)

☐ Logistic Regression (Continued ) (unit? unit=55&lesson=59)

☐ Performance Measures (unit? unit=55&lesson=60)

☐ Logistic Regression Implementation in R (unit? unit=55&lesson=61)

☐ Dataset (unit? unit=55&lesson=62)

☐ FAQ (unit? unit=55&lesson=63)

☐ **Quiz : Practice Assignment 7 (assessment? name=96)**

☐ Quiz : Assignment 7 (assessment? name=124)

☐ Week 7 Feedback (unit? unit=55&lesson=126)

☐ Solution - Assignment 7 (unit? unit=55&lesson=130)

## Week 8

## Text Transcripts

## Download Videos

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
$$\frac{\text{False Negative} + \text{False positive}}{\text{Total number of samples}}$$

3) The value of both sensitivity and specificity lies between

1 point

- ☐ -1 and 1
- ☐ -1 and 0
- ☐ -2 and 2
- ☐ 0 and 1

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
0 and 1

4) In Logistic Regression a linear relationship is assumed between the independent variables and the

1 point

- ☐ Sigmoid of the dependent variable
- ☐ Log of the dependent variable
- ☐ Sine of the dependent variable
- ☐ None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
None of the above

5) The confusion matrix for a binary classifier gives

1 point

- ☐ Only True Positives and True Negatives
- ☐ Only False Positives and False Negatives
- ☐ Only True Positives, False Positives and False Negatives
- ☐ True Positives, False Positives, True Negatives and False Negatives

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
True Positives, False Positives, True Negatives and False Negatives

