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sai.doc45@gmail.com ~

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 () Week 6 () Week 7 () Week 8 () Week 9 () Week 10 ()

Week 12 : Assignment 12

The due date for submitting this assignment has passed.

Due on 2023-04-19, 23:59 IST.

Assignment submitted on 2023-04-19, 23:18 IST

1)	Which c	of the following	g data mining	ı tasks shou l d	d not be co	nducted ı	using discr	iminant 1	ooint
anal	ysis?								

- Prediction
- Classification
- Clustering
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Prediction

2) Which of the following is true about linear classification functions used in discriminant analysis?

1 point

- Provide the basis for discrimination of records into classes
- Linear functions of predictors that maximize ratio of between-class variability to withinclass variability
- Coefficients of linear discriminant are optimized w.r.t class separation
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Provide the basis for discrimination of records into classes

Week 11 ()

Week 12 ()

Lecture 56 **ARTIFICIAL NEURAL NETWORK** PART-4 (unit? unit=98&lesson=99)

- Lecture 57 **ARTIFICIAL NEURAL NETWORK** PART-5 (unit? unit=98&lesson=100)
- Lecture 58 **ARTIFICIAL NEURAL NETWORK** PART-6 (unit? unit=98&lesson=101)
- Lecture 59 DISCRIMINANT **ANALYSIS** (unit? unit=98&lesson=102)
- Lecture 60 DISCRIMINANT **ANALYSIS** PART-2 (unit? unit=98&lesson=103)
- Quiz: Week 12:

Assignment 12

(assessment? name=136)

 Solution for week 12: Assignment 12 (unit? unit=98&lesson=104)

> Download Videos ()

Weekly Feedback () Linear functions of predictors that maximize ratio of between-class variability to within-class variability

Coefficients of linear discriminant are optimized w.r.t class separation 3) Which of the following plot can be helpful in assessing class separation for 1 point discriminant analysis? Histogram Scatter plot Bar chart None of the above

Yes, the answer is correct. Score: 1 Accepted Answers: Scatter plot

- 4) What is the maximum number of needed discriminant functions when m classes are 1 point present?
 - \bigcirc m m-1
 - None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

m-1

- 5) Which of the following is true assumption about correlation structure between predictors in discriminant analysis?
- 1 point

- Different for each class
- Same for each class
- Does not matter
- None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Same for each class

- 6) Which of the following are true about discriminant analysis and linear regression? 1 point
 - Same estimation technique
 - Coefficients are optimized using same mechanism
 - Different estimation technique
 - None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

Same estimation technique

Text Transcripts ()

7) Which of the following updating mechanisms yields more accurate results in neural networks?				
Batch updating				
Both a and b				
Case updating				
None of the above				
Yes, the answer is correct. Score: 1				
Accepted Answers: Case updating				
8) Which of the following is true about updating mechanisms in neural networks?	1 point			
Case updating is done after each case or record is run through the network.				
☐ Batch updating is done after each case or record is run through the network.				
Batch updating is done after all records are run through the network.				
None of the above				
Yes, the answer is correct. Score: 1				
Accepted Answers: Case updating is done after each case or record is run through the network. Batch updating is done after all records are run through the network.				
9) What is the basic advantage of data normalization step?	1 point			
Smaller values improve the model				
Values falling in a smaller range improve the model				
Computing performance is better				
None of the above				
Yes, the answer is correct. Score: 1				
Accepted Answers: Computing performance is better				
10) Which stopping criteria are typically used in the training of neural networks?	1 point			
Small incremental change in bias and weight values				
Rate of change of error function values reaches a required threshold				
Limit on no. of runs is reached				
None of the above				
Yes, the answer is correct. Score: 1				
Accepted Answers:				
Small incremental change in bias and weight values Rate of change of error function values reaches a required threshold				
Limit on no. of runs is reached				