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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 ()

- Lecture 11
 VISUALIZATION
 TECHNIQUES
 PART-5 (unit?
 unit=35&lesson=36)
- Lecture 12
 VISUALIZATION
 TECHNIQUES
 PART-6 (unit?
 unit=35&lesson=37)
- Lecture 13
 DIMENSION
 REDUCTION
 TECHNIQUES

Week 3: Assignment 3

The due date for submitting this assignment has passed.

Due on 2023-02-15, 23:59 IST.

Assignment submitted on 2023-02-15, 12:12 IST

1) Which of the followings are not true about heatmaps?

1 point

- Useful to visualize corelations between variables.
- Useful to visiualize class separation.
- Oclor themes are used to indicate values.
- None of the above.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Useful to visiualize class separation.

2) Which of the followings are true about multi-dimensional visualisation?

1 point

- Multiple panels having plots between different variables.
- Many plots each with one or two variables.
- Marker color can be used to represent 3rd variable.
- None of the above.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Multiple panels having plots between different variables.

Marker color can be used to represent 3rd variable.

(unit? 3) Which of the following steps would be better for reducing dimensionality of a 1 point unit=35&lesson=38) dataset? Lecture 14 Removing columns which have too many missing values. **DIMENSION** Removing columns with dissimilar data trends. REDUCTION **TECHNIQUES** Removing columns which have high variance in data. PART-2 (unit? None of the above. unit=35&lesson=39) Yes, the answer is correct. Lecture 15 Score: 1 **DIMENSION** Accepted Answers: REDUCTION Removing columns which have too many missing values. **TECHNIQUES** PART-3 (unit? 4) Which of the following is true about principal component analysis (PCA)? 1 point unit=35&lesson=40) I: PCA is a supervised technique. Quiz: Week 3 II: PCA searches for the directions where data have the largest variance. : Assignment III: Maximum number of principal components is equal to number of features. IV: All principal components are orthogonal to each other. (assessment? name=124) ✓ I and II Solution for Week 3: I. II. and IV Assignment 3 ✓ II and III (unit? None of the above unit=35&lesson=41) Yes, the answer is correct. Week 4 () Score: 1 Accepted Answers: Week 5 () I and II I, II, and IV Week 6 () II and III Week 7 () 5) Which of the followings are dimension reduction techniques? 1 point I: Domain knowledge Week 8 () II: Data exploration techniques III: Data conversion techniques Week 9 () IV: Automated reduction techniques V: Data mining techniques Week 10 () II. IV and V Week 11 () I, III and IV Week 12 () ✓ I. IV and V None of the above **Download** Yes, the answer is correct. Videos () Score: 1 Accepted Answers: Weekly II. IV and V Feedback () I, III and IV I, IV and V Text Transcripts () 6) When we add an irrelevant feature to a linear regression model, it may result in: 1 point

I: An increase in R-square II: A decrease in R-sq
Only I is correct
Only II is correct
Either I or II is correct
None of the above
Yes, the answer is correct. Score: 1
Accepted Answers: Only I is correct
7) Which of the following is suitable only for predicting a class? 1 point
C Linear regression
Correlation
O Decision trees
Naïve Bayes
Yes, the answer is correct. Score: 1
Accepted Answers: Naïve Bayes
8) Which of the following is true about correlation analysis? 1 point
Used to estimate the effects of multiple independent variables on a dependent variable.
Used to predict values of y based on values of x.
Used to measure the strength of association between two variables
None of the above
Yes, the answer is correct. Score: 1
Accepted Answers: Used to measure the strength of association between two variables
9) Which of the following is a way to measure the degree of linear association between 1 point two quantitaitve variables?
Pearson correlation coefficient
Significance level
op-value
O None of the above
Yes, the answer is correct. Score: 1
Accepted Answers: Pearson correlation coefficient
10) Consider the three scatter plots given below, which of the followings are examples 1 point of multi-collinear features?

