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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 ()**
- Lecture 1 INTRODUCTION (unit?unit=21&lesson=22)
- Lecture 2 DATA MINING PROCESS (unit?unit=21&lesson=23)
- Lecture 3 INTRODUCTION TO R (unit?unit=21&lesson=24)
- Lecture 4 BASIC STATISTICS (unit?unit=21&lesson=25)

Week 1 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-02-08, 23:59 IST.

Assignment submitted on 2023-01-20, 21:01 IST

1) Classify each of the following as N (nominal), O (ordinal), or I/R (interval/ratio) data: ***1 point***
Pin code of a city, quality of clothes you have, place of your study, last CGPA you achieved in exam, mileage of a car

- I/R, O, N, I/R, I/R.
- N, I/R, N, O, O.
- N, O, N, I/R/ I/R.
- I/R, N, O, I/R, N.

Yes, the answer is correct.
Score: 1
Accepted Answers:
N, O, N, I/R/ I/R.

2) If two variables have a correlation coefficient value of 0.01. What does it suggest? ***1 point***

- It suggests positive correlation.
- It suggests causality.
- It suggests no correlation.
- None of the above.

Yes, the answer is correct.
Score: 1
Accepted Answers:
It suggests no correlation.

Lecture 5: BASIC STATISTICS PART-2 (unit?unit=21&lesson=26)

Quiz: Week 1 : Assignment 1 (assessment?name=122)

Solution for Week 1 : Assignment 1 (unit?unit=21&lesson=27)

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

Download Videos ()

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3) Which type of analytics mostly employs machine learning techniques? ***1 point***

- Decision making.
- Prescriptive.
- Descriptive.
- Predictive.

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

4) Which scenarios might create overfitting issues? ***1 point***

- By training a model using a complex function that fits the data perfectly
- By training a model that ends up fitting the noise and explaining the chance variation
- By training a model with more no. of iterations resulting in excessive learning of the data
- All of the above

Yes, the answer is correct.
Score: 1
Accepted Answers:
All of the above

5) Which of the following is not true about unsupervised learning? ***1 point***

- It might involve clustering of the data.
- Finding interesting patterns hidden in the data.
- Same as semi-supervised learning.
- None of the above.

Yes, the answer is correct.
Score: 1
Accepted Answers:
Same as semi-supervised learning.

6) Surveying all individuals of a given population is referred to as ***1 point***

- Sampling
- Poll
- Census
- None of the above

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

7) Which one of the following is the benefit of using simple random sampling? ***1 point***

- Informants won't refuse to participate.
- Interviewers can choose respondent freely.

- ○ The results are always representative.
- ○ None of the above.

No, the answer is incorrect.
Score: 0
Accepted Answers:
None of the above.

8) Which of the following are true about dummy coding? ***1 point***

- ☑ Dummy binary variables having 0's and 1's: 0 indicates 'absence' and 1 indicates 'presence'
- ☑ Dummy binary variables having 0's and 1's: 0 indicates 'presence' and 1 indicates 'absence'
- ☑ Used for categorical variables
- ☐ None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Dummy binary variables having 0's and 1's: 0 indicates 'absence' and 1 indicates 'presence'
Used for categorical variables

9) Which of the following are true assumptions made in Student's t-test? ***1 point***

- ☑ The underlying population distributions have equal variance.
- ☐ The underlying population follows a non-symmetrical distribution.
- ☑ The underlying population follows normal distribution.
- ☐ All of the above.

Yes, the answer is correct.
Score: 1
Accepted Answers:
The underlying population distributions have equal variance.
The underlying population follows normal distribution.

10) Which function is used to print all the variable names in a data frame df in R? ***1 point***

- ○ names()
- ◉ names(df)
- ○ df.names()
- ○ names("df")

Yes, the answer is correct.
Score: 1
Accepted Answers:
names(df)