Unit 14 - Week 12

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

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Week 5

Week 6

Week 7

Week 8

Week 9

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Week 11

Week 12

- Lecture 59 : Revision of Learning Analytics tools course
- Lecture 60 : Source of Data collection and Research Community
- Lecture 61 : Machine Learning tools used in industry
- Quiz : Assignment 12
- Assignment-12 Solutions
- Weekly Feedback
- Download Videos
- Week-12: Lecture slides

Live Session

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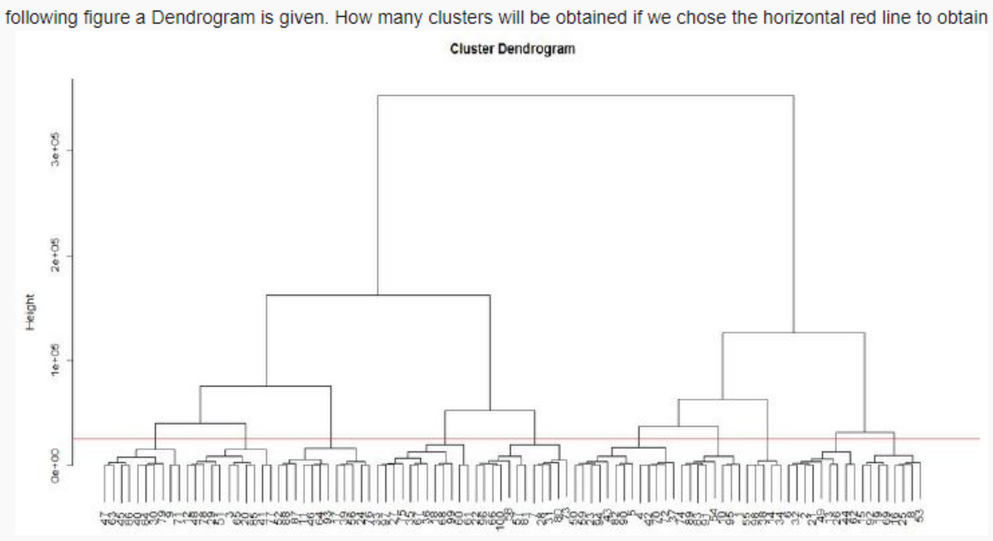
Assignment 12

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-12-09, 23:59 IST.

1) In the following figure a Dendrogram is given. How many clusters will be obtained if we chose the horizontal red line to obtain the clusters? ***1 point***



- 12
- 9
- 10
- 11

No, the answer is incorrect.
Score: 0
Accepted Answers:
10

2) Which of the following is true about Fuzzy Miner? ***1 point***

- Highly significant nodes are preserved.
- Less significant nodes that are highly correlated are aggregated into clusters.
- Less significant nodes with low correlation with other nodes are dropped.
- Less significant nodes with low correlation with other nodes are aggregated.

No, the answer is incorrect.
Score: 0
Accepted Answers:
Highly significant nodes are preserved.
Less significant nodes that are highly correlated are aggregated into clusters.
Less significant nodes with low correlation with other nodes are dropped.

3) Which of the following is/are true about correlation? ***1 point***

- High correlation implies causation.
- cor(x,y) > cor(y,x)
- correlation coefficient(r) varies between -1 and 1.
- It is unitless.

No, the answer is incorrect.
Score: 0
Accepted Answers:
correlation coefficient(r) varies between -1 and 1.
It is unitless.

4) Which of the following is the most suitable candidate for cost function in the regression model? ***1 point***

- $\sum |ei|$
- $\sum \left| e_i \right|^2$
- $\sum(e_i)$
- $\frac{\sum |ei|}{n}$

No, the answer is incorrect.
Score: 0
Accepted Answers:
$\sum \left| e_i \right|^2$

5) For the given confusion matrix, the precision value is _____ .

(**Hint:** Report your answers correct to two decimal places)

	Actual A	Actual !A
Predicted A	10	5
Predicted !A	3	15

Hint

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 0.66,0.68

1 point

6) Which curve in the figure shown below represents best ROC (Receiver Characteristic Curve):

(Since it is a Numerical type Question . Report your answer as 1, 2 or 3.)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 2

1 point

7) The research Ethics forms an important part of the research. Which of the following are true in light of research ethics? ***1 point***

- Researchers cannot store the data beyond 5 years.
- Students who have given consent can withdraw it afterwards.
- Students can prevent others from participating in the study.
- The consent form should inform the risk involved in the study.

No, the answer is incorrect.
Score: 0
Accepted Answers:
Researchers cannot store the data beyond 5 years.
Students who have given consent can withdraw it afterwards.
The consent form should inform the risk involved in the study.

8) Which of the following techniques can be used for the purpose of converting a keyword into its base form? ***1 point***

- Lemmatization
- Levenshtein
- Stemming
- word2vec

No, the answer is incorrect.
Score: 0
Accepted Answers:
Lemmatization
Stemming

9) In LSR college of Delhi university, 60% students of B.Sc. mathematics reside in Hostel. It is seen that 30% of the students who reside in Hostel qualify JAM. In addition to this, 20% of the day scholars also qualify JAM. What is the probability that a randomly chosen student who qualified JAM is a hostiler?

(**Hint:** Report your answer correct to 2 decimal places)

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 0.65,0.75

1 point

10) The following picture represents which type of Data Analytics? ***1 point***

- Descriptive
- Diagnostic
- Prescriptive
- Predictive

No, the answer is incorrect.
Score: 0
Accepted Answers:
Prescriptive