

Unit 2 - Week 1

Course outline

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Week 1

- Association Rules-Part I
- Association Rules-Part II
- Association Rules-Part III
- Association Rules-Part IV
- Cluster Analysis- Part I
- Quiz : Assignment 1
- Solution For Assignment 1

Week 2

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Transcriptions

Assignment 1

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

Due on 2019-08-14, 23:59 IST.

1) Which of the following is not an advantage of association rules? 1 point

- The rules are transparent and easy to understand
- Generates clear and simple rules
- Generates too many rules
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Generates clear and simple rules

2) In one of the frequent item-set examples, it is observed that if tea and milk are bought then sugar is also purchased by the customers. After generating an association rule among the given set of items, it is inferred: 1 point

- {Tea} is antecedent and {sugar} is consequent
- {Tea } is antecedent and the item set {milk, sugar} is consequent
- The item set {Tea, milk } is consequent and {sugar} is antecedent
- The item set { Tea, milk } is antecedent and { sugar} is consequent

No, the answer is incorrect.
Score: 0

Accepted Answers:
The item set { Tea, milk } is antecedent and { sugar} is consequent

3) Support is: 1 point

- No.of transactions with both antecedent and consequent item sets
- Measures the degree of support the data provides for the validity of the rule
- Expressed as a percentage of total records
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

4) Online recommender systems is an example of: 1 point

- Cluster Analysis
- Affinity analysis
- Decision analysis
- Both a and b

No, the answer is incorrect.
Score: 0

Accepted Answers:
Affinity analysis

5) What is the limitation behind rule generation in Association rule mining? 1 point

- High computation time
- Dropping itemsets with valued information
- Both a and b
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
High computation time

6) Confidence can be best represented as: 1 point

- P(antecedent and consequent)
- P(consequent | antecedent)
- P(antecedent | consequent)
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
P(consequent | antecedent)

7) In Apriori algorithm, for generating e.g. 5 item sets, we use: 1 point

- Frequent 4 item sets
- Frequent 6 item sets
- Frequent 5 item sets
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Frequent 4 item sets

8) A database has 5 transactions. Of these, 4 transactions include milk and bread. Further, of the given 4 transactions, 3 transactions include cheese. Find the support percentage for the following association rule "if milk and bread are purchased, then cheese is also purchased". 1 point

- 60%
- 75%
- 80%
- None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
60%

9) What are the methods to interpret the results after rule generation? 1 point

- Absolute Mean
- Lift ratio
- Gini Index
- Apriori

No, the answer is incorrect.
Score: 0

Accepted Answers:
Lift ratio

10)How can we best represent 'benchmark confidence' for the following association rule: "If X and Y, then Z". 1 point

- {X,Y}/(Total number of transactions)
- {Z}/{X,Y}
- {X,Y,Z}/(Total number of transactions)
- {Z}/(Total number of transactions)

No, the answer is incorrect.
Score: 0

Accepted Answers:
{Z}/(Total number of transactions)