Lab Quiz

01 Multiple Choice 1 / 1

Calculate the following distance measures between the two vectors, v1 = [0, 1, 1, 0, 0, 0, 1] v2 = [1, 0, 1, 0, 1, 0, 0] use Cosine Distance measure

- ◉ a. 1/3

- ○ b. 2/3

- ○ c. 1/2

- ○ d. 3/4

02 Multiple Choice 1 / 1

Cluster is _____

- ○ b. Operations on a database to transform or simplify data in order to prepare it for a machine-learning algorithm

- ○ d. None of these

- ○ c. Symbolic representation of facts or ideas from which information can potentially be extracted

- ◉ a. Group of similar objects that differ significantly from other objects

03 Multiple Choice 1 / 1

Assume, you want to cluster 7 observations into 3 clusters using K-Means clustering algorithm. After first iteration clusters, C1, C2, C3 has following observations: C1: {(2,2), (4,4), (6,6)} C2: {(0,4), (4,0)} C3: {(5,5), (9,9)} What will be the cluster centroids if you want to proceed for second iteration?

- ○ c. C1: (2,2), C2: (0,0), C3: (5,5)

- ○ b. C1: (6,6), C2: (4,4), C3: (9,9)

- ○ a. C1: (4,4), C2: (2,2), C3: (7,7)

04 Multiple Choice   0 / 1

Suppose in a classification problem, you are using a decision tree and you use the Gini index as the criterion for the algorithm to select the feature for the root node. The feature with the _____ Gini index will be selected.

○ (B) highest

◉ (C) least

○ (D) None of these

○ (A) maximum

05 Multiple Choice   0 / 1

Agglomerative clustering falls under which type of clustering method?

a. partition

○

b. hierarchical

◉

06 Multiple Choice   1 / 1

Choose the data mining tool

◉ Weka

○ C

○ C++

○ Flash

07 Multiple Choice   1 / 1

what is the formula to calculate Confidence(A -> B)?

○ d. Support(A B) / Support (B

◉ a. Support(A B) / Support (A)

○ b. Support(A B) / Support (B)

○ c. Support(A B) / Support (A,B)

08 Multiple Choice   0 / 1

What is the minimum no. of variables/ features required to perform clustering?

○ d. 3

a. 0
○

c. 2
◉

b. 1
○

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09 Multiple Choice   1 / 1

What does FP growth algorithm do?

○ b. It mines all frequent patterns through pruning rules with higher support

○ a. It mines all frequent patterns through pruning rules with lesser support

◉ It mines all frequent patterns by constructing a FP tree

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10 Multiple Choice   1 / 1

ARFF stands for

◉ Atrribute Relationship File Format

○ Attribute Related File Format

○ Active Relational formoted File

○ Association Rule based File Format