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QUESTION 1

What are the major components of the YARN architecture?

- A. ResourceManager and NodeManager
- B. Task Tracker and NameNode
- C. HDFS, Tez, and Spark
- D. Avro, ZooKeeper, and HDFS

Correct Answer: A

QUESTION 2

Which representation is most suitable for a small and highly connected network?

- A. Edge list
- B. Adjacency matrix
- C. Eigenvector centrality
- D. Adjacency list

Correct Answer: B

QUESTION 3

You conduct a TFIDF analysis on 3 documents containing raw text and derive TFIDF ("data", document y) = 1.908. You know that the term "data" only appears in document 2.

What is the TF of "data" in document 2?

- A. 2 based on the following reasoning: $TFIDF = TF \cdot IDF = 1.908$ You then know that $IDF = \log(3/2) = 0.954$ Therefore, $TFIDF = TF \cdot 0.954 = 1.908$ TF will then round to 2
- B. 4 based on the following reasoning: $TFIDF = TF \cdot IDF = 1.908$ You then know that $IDF = \log(3/1) = 0.477$ Therefore, $TFIDF = TF \cdot 0.477 = 1.908$ TF will then round to 4
- C. 6 based on the following reasoning: $TFIDF = TF \cdot IDF = 1.908$ You then know that $IDF = 3/1 = 3$ Therefore, $TFIDF = TF/3 = 1.908$ TF will then round to 6
- D. 11 based on the following reasoning: $TFIDF = TF \cdot IDF = 1.908$ You then know that $IDF = \log(3/2) = 0.176$ Therefore, $TFIDF = TF \cdot 0.176 = 1.908$ TF will then round to 11

Correct Answer: B

QUESTION 4

What is a characteristic of lemmatization?

- A. Can be performed by calling the synset () function on a lemma in LNTK
- B. Can be performed by calling the lemma() function on a synset in LNTK
- C. Reduces words of variant forms to their base forms based on a set of heuristics
- D. Reduces words of variant forms to their base forms based on a dictionary

Correct Answer: D

QUESTION 5

The naive Bayer classifier is trained over 1600 movie reviews and then tested over 400 reviews.

Here is the resulting confusion matrix:

190 (TP) 10(FN)

80 (FP) 120(TN)

What are the precision, recall, and the F1-score values?

- A. Precision 0.95; Recall: 0.704; F1-score: 0.809
- B. Precision 0.613, Recall: 0.95, F1-score: 0.745
- C. Precision 0.704, Recall: 0.95; F1-score: 0.809
- D. Precision 0.95; Recall: 0.613; F1-score: 0.745

Correct Answer: C

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