Question Paper

Exam Date & Time: 20-Jun-2024 (02:30 PM - 05:30 PM)

Marks: 50

B)

C)



MANIPAL ACADEMY OF HIGHER EDUCATION

SIXTH SEMESTER B.TECH MAKEUP EXAMINATIONS, JUNE 2024

BIG DATA ANALYTICS [CSE 3272]

Answer all the questions. Instructions to Candidates: Answer ALL questions Missing data may be suitably assumed 1) Summarize different types of RDDs with code example. (5)A) B) Summarize properties of Hadoop. (3)C) Draw a diagram depicting anatomy of HDFS read operation. (2)2) List and explain pair RDD transformations. Write code example. (5)A) B) Outline advantages of matrix factorization. (3)C) Write a program in PySpark to count the number of lines present in a file. (2)How you choose best K in K-Means clustering. Write the code for the same. 3) (5)A) What is one hot encoding? The weather can be sunny, rainy or windy represent it using one hot B) (3)encoding. C) Compare count function with countByKey function. (2)Outline the advantages of sliding window over state operations. Draw the diagram of a sliding (5) 4) window with window length of 2 and sliding interval of 2. Write the code for word count example with sliding window. A) B) Summarize the components of GraphX. (3)C) What is the role of inverse function in a sliding window? (2)Outline different set transformations in PySpark. (5)5) A)

Write the code for word count with Dstream transformation

Write the code for decision tree.

(3)

(2)

Duration: 180 mins.

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