



Future Vision

FUTURE VISION BIE

By K B Hemanth Raj

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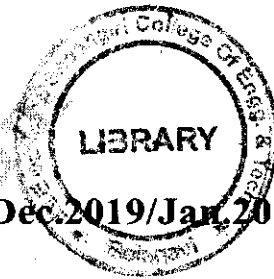
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Eighth Semester B.E. Degree Examination, Dec. 2019/Jan. 2020
Big Data Analytics

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. What is HDFS? List all the components of HDFS and explain any four components. (09 Marks)
 b. With example, explain the different general HDFS commands. (07 Marks)

OR

- 2 a. Explain with neat diagram, the parallel mapreduce data flow. (07 Marks)
 b. Write the java code for MAP and REDUCE of word count problem. Describe the steps of compiling and removing the mapreduce program. (09 Marks)

Module-2

- 3 a. Describe with neat diagram, the two step sqoop data export and import method. (08 Marks)
 b. With block diagram discuss the various frameworks that run under YARN. (08 Marks)

OR

- 4 a. Discuss the different views supported by Apache Ambari. (06 Marks)
 b. Describe the various features of hadoop YARN administration. (04 Marks)
 c. Explain the different HDFS administration features. (06 Marks)

Module-3

- 5 a. What is Business Intelligence (BI)? List the different BI applications and explain in detail any five applications. (10 Marks)
 b. With neat block diagram, explain data warehouse architecture. (06 Marks)

OR

- 6 a. Explain with diagram CRISP-DM data mining cycle. (08 Marks)
 b. Describe the common data mining mistakes. (04 Marks)
 c. List and describe the various charts used for data visualization. (04 Marks)

Module-4

- 7 a. Explain the different steps for constructing the decision tree for the following example (Table 7(a)) (08 Marks)

OUTLOOK	TEMP	HUMIDITY	WINDY	PLAY
SUNNY	HOT	HIGH	FALSE	NO
SUNNY	HOT	HIGH	TRUE	NO
OVERCAST	HOT	HIGH	FALSE	YES
RAINY	MILD	HIGH	FALSE	YES
RAINY	COOL	NORMAL	FALSE	YES
RAINY	COOL	NORMAL	TRUE	NO
OVERCAST	COOL	NORMAL	TRUE	YES
SUNNY	MILD	HIGH	FALSE	NO
SUNNY	COOL	NORMAL	FALSE	YES
RAINY	MILD	NORMAL	FALSE	YES
SUNNY	MILD	NORMAL	TRUE	YES
OVERCAST	MILD	HIGH	TRUE	YES
OVERCAST	HOT	NORMAL	FALSE	YES
RAINY	MILD	HIGH	TRUE	NO

Table 7(a)

1 of 2

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

- b. Describe the advantages and disadvantages of using Regression models.

(08 Marks)

OR

- 8 a. Write the different steps involved in developing an artificial neural network. (05 Marks)
 b. Describe the advantages of using ANN. (03 Marks)
 c. For the following example (Table 8c) describe the different steps of forming association rules using Apriori algorithm. (08 Marks)

S.No.	TRANSACTION LIST			
1	MILK	EGG	BREAD	BUTTER
2	MILK	BUTTER	EGG	KETCHUP
3	BREAD	BUTTER	KETCHUP	
4	MILK	BREAD	BUTTER	
5	BREAD	BUTTER	COOKIES	
6	MILK	BREAD	BUTTER	COOKIES
7	MILK	COOKIES		
8	MILK	BREAD	BUTTER	
9	BREAD	BUTTER	EGG	COOKIES
10	MILK	BUTTER	BREAD	
11	MILK	BREAD	BUTTER	
12	MILK	BREAD	COOKIES	KETCHUP

Table 8(c)

Module-5

- 9 a. Describe the difference between text mining and data mining. (06 Marks)
 b. Briefly describe SVM technique. (04 Marks)
 c. Explain Naive Bayes model to classify the text data into right class using following dataset (Table Q9 (c)) (06 Marks)

Training Set	Document ID	Keyword in the document	Class = h (Healthy)
	1	Love Happy Joy Joy Love	Yes
	2	Happy Love KICK JOY Happy	Yes
	3	Love Move Joy Good	Yes
	4	Love Happy Joy Pain Love	Yes
	5	Joy Love Pain Kick pain	No
	6	Pain Pain Love Kick	No
Test data	7	Love Pain Joy Love Kick	?

Table Q9 (c)

OR

- 10 a. What is web mining? Explain the different types of web mining. (08 Marks)
 b. Discuss the application and practical consideration of social network analysis. (08 Marks)



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