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First Semester M.Tech. Degree Examination, Feb./Mar. 2022
Data Science

Time: 3 hrs.   Max. Marks: 100

Note: *Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

1 a. Explain Big data and Data Science hype. How to get past the hype? Explain the process of datafication. **(10 Marks)**

   b. What is data science? Explain the draw conveys Venn diagram of Data Science. **(10 Marks)**

OR

2 a. Explain the terms i) data   ii) database   iii) data warehouse   iv) data mining   v) data visualization. **(10 Marks)**

   b. Discuss the concept of 'model' in Data Science. Explain the role of social scientist and statistician in data science. **(10 Marks)**

Module-2

3 a. Discuss linear regression with suitable example. Explain the evaluation metrics used in linear regression. **(10 Marks)**

   b. Explain the concept of KNN algorithm. What are the modeling assumptions of KNN algorithm with example? **(10 Marks)**

OR

4 a. Explain the concept of K-means algorithm. What is the selection criteria for the selection of K. **(10 Marks)**

   b. With a multidimensional space, explain the different similarity metrics of KNN algorithm. **(10 Marks)**

Module-3

5 a. What are the limitations of regression model? And how to overcome them. **(10 Marks)**

   b. What are the different ways to scrap data from web? Explain different tools used for web scrapping. **(10 Marks)**

OR

6 a. Explain the concept of Naïve Baye's algorithm with relevant equations and suitable example. **(10 Marks)**

   b. How decision trees are built? Explain with a case study and relevant statistics. **(10 Marks)**

Module-4

7 a. Discuss features generation. Describe feature selection using SVD algorithm. What is the need of SVD technique? **(10 Marks)**

   b. Describe different ways to detect communities in social networks. **(10 Marks)**

Phd Question Papers Computer Science

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