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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

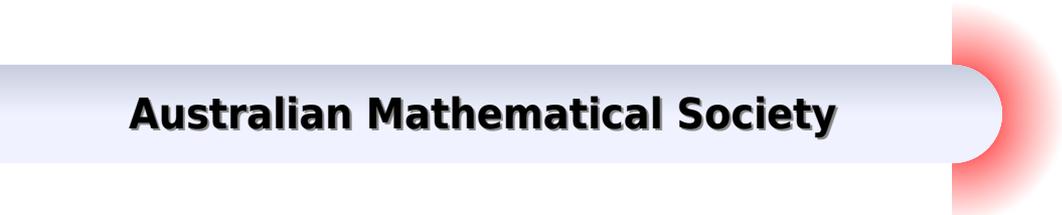
6. a. Explain the concept of Naive Baye's algorithm with relevant equations and suitable example. (10 Marks)
b. How decision trees are built? Explain with a case study and relevant statistics. (10 Marks)

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)

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