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Total Number of Pages : 01

M.TECH

AR-18

M.TECH 1ST SEMESTER EXAMINATIONS(BACK), NOV/DEC 2019

CSE, MCSPE1041

DATA SCIENCE

Time: 3 Hours

Max Marks : 70

The figures in the right hand margin indicate marks.

PART-A**(10 X 2=20 MARKS)****1. Answer the following questions.**

- What is the difference between simple linear and multiple linear regressions?
- Why missing value treatment is required?
- Write down the difference between numerical and categorical data.
- Define Data exploration.
- Differentiate Data balancing and Data shuffling.
- Difference between Planar Encoding and Retinal Encoding.
- Which factors are responsible for the effectiveness of an SVM?
- Differentiate between Volume visualization and Information visualization.
- What is Tableau?
- Why should we use Data Science?

PART-B**(5 X 10=50 MARKS)****Answer any five questions from the following.**

- Explain in details about the processes involved in Data Science with the help of a neat diagram.
- Give a detail description of SVM algorithm. How to implement SVM in Python?
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- What are the key terminologies of SVM?
 - Explain Bayes' estimator parametric density estimation.
- How does exploratory data analysis differ from summary analysis?
 - Explain Simple Linear regression.
- Explain the application of Data Science in detail.
- Describe the role of python in Data Science.
 - Briefly explain about different types of data visualization techniques.
- Write Short notes on
 - Random Forest
 - Scikit-learn

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