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M.TECH

Total Number of Pages :1

M.TECH 1ST SEMESTER REGULAR EXAMINATIONS, DECEMBER 2018

DATA SCIENCE

Branch: CS, Subject Code: MCSPE1041

(Regulations 2018)

Time: 3 Hours

Max Marks : 70

Question Code:RD18002086

PART-A (10 X 2=20 Marks)

1. Answer the following questions.

- Which are the methods to treat missing value?
- Describe Scikit-learn.
- Describe different Categories of API.
- Define Data exploration.
- Differentiate Data balancing and Data shuffling.
- Compare between Planar Encoding and Retinal Encoding.
- What does Data Collection mean?
- What is difference between regression model and estimated regression equation?
- Why data has missing values?
- What is the impact of outliers on dataset?

PART-B (5 X 10=50 Marks)

Answer any five questions from the following.

- 2.a) Give three commonly used statistical measures that are used for characterization of data Dispersion. [5]
b) Discuss how they can be computed efficiently in large databases. [5]
3. Give a detail description of KNN algorithm and state clearly.
a) When do we use KNN algorithm? [5]
b) How do we choose the factor K? [5]
4. (a) Discuss linear regression with an example. [5]
(b) Describe the working behavior of support vector machine with a diagram. [5]
5. (a) What are the key terminologies of SVM? [5]
(b) Explain Bayes' estimator parametric density estimation. [5]
6. a) Describe data science applications in healthcare. [5]
b) Briefly explain Visual Encoding Variables. [5]
7. a) Describe the role of python in Data Science. [5]
b) Distinguish between classification tree and regression tree. [5]
8. Write Short notes on any two of the following [5]
a) Logistic Regression. [5]
b) Data science versus BI