K. J. Somaiya College of Engineering, Mumbai-77

(A Constituent College of Somaiya Vidyavihar University)

Department of Information Technology

Course: Fundamentals of Data Science

Term: Odd (2023-24)   **Class / Sem: SY BTECH (IT) III**

Course Outcomes (COs)

CO 1	Summarize the data
CO 2	Comprehend descriptive and proximity measures of data
CO 3	Apply the transformations required on data to make it suitable for mining
CO 4	Comprehend various data visualization techniques and its interpretation

List of Experiments

Sr. No.	Experiment Title	Outcomes achieved
1.	Understanding the data	CO1
2.	Measures of central tendency of data	CO2
3.	Predicting missing data using regression modeling	CO2
4.	Applying and interpreting different plots	CO4
5.	Applying similarity measures on the numeric datasets	CO2
6.	Applying similarity measures on the textual datasets	CO2
7.	Exploration of data discretization techniques using clustering	CO3
8.	Exploration of data classification algorithm with Decision Tree	CO3
9.	Exploration of Data Visualization tools and techniques	CO4

Recommended Books:

1. S.C. Gupta , V. K. Kapoor Fundamentals of mathematical statistics Sultan Chand and Sons 2014
2. P. N. Tan, M. Steinbach, Vipin Kumar, Introduction to Data Mining Pearson Education, 2014
3. Han, Kamber Data Mining Concepts and Techniques Morgan Kaufmann3 nd Edition,2012
4. C. B. Gupta, Vijay Gupta An Introduction to Statistical Methods Sultan Chand and Sons 23rd Edition, 2004
5. Colin Ware Information Visualization: Perception for Design MK publication May 2020, 4 th Edition
6. Michael Berry and Gordon Linoff Data Mining Techniques Wiley Publications 2nd Edition , 2011

Course In-charge
Prof. Vaibhav N. Chunekar
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