SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)
(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai — 600 044.
M.Sc. - END SEMESTER EXAMINATIONS NOVEMBER - 2022
SEMESTER - I
20PCSET1001 - Introduction to Machine Learning

Total Duration : 2 Hrs 30 Mins.   Total Marks : 60

Section A

Answer any **SIX** questions $(6 \times 5 = 30$ Marks)

1. What is Machine Learning, Explain its Applications?

2. Describe Multivariate Regression.

3. Classify the Reduction Methods.

4. Explain Decision Trees in detail.

5. Elaborate on Estimator Bias and Variance.

6. Discuss the Multivariate Methods.

7. Describe about Linear Discriminant Analysis.

8. Distinguish:Multiple Input and Multiple Output Channels.

Section B

Part A

Answer any **TWO** questions $(2 \times 10 = 20$ Marks)

9. Explain the Bayesian Decision Theory.

10. Classify:Parametric Methods.

11. Differentiate between Classification and Clustering.

12. Compare and Contrast between different dimensionality reduction methods.

Part B

Compulsory question $(1 \times 10 = 10$ Marks)

13. Justify Back propagation Algorithm with example.

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