P8466

Oct-22/BE/Insem-42

B.E. (Computer Engg.)

MACHINE LEARNING

(2019 Rattern) (Semester - VII) (410242)

[Max. Marks: 30 Time: 1 Hour] Instructions to the candidates: Answer 01 or Q2, Q3 or Q4. 1) Neat diagrams must be drawn whenever necessary. 2) Figures to the right indicate full marks. 3) Aşśaine suitable data, if necessary. 4) [5] Compare machine learning vs **Q1**) a) ametric machine learning models. Describe parametric and N b) [5] Explain various Data formats that conform ML elements. [5] c) Explain supervised, unsupervised and semi supervised learning Q2) a) [8] Describe various statistical learning approaches. b) Consider a vector x = (23, 29, 52, 31, 45, 19, 18)*Q3*) a) ll as z-score values. scaling and find out min-max scaled values [8] Explain the process of Principal Component Analysis (PCA) in brief. b) [7] OR

- Q4) a) How to handle missing values in a dataset that will be used for training the ML model? [5]
 - b) Explain the types of wrapper methods for feature selection. [5]
 - c) Explain Local Binary Pattern (LBP) feature extraction technique with suitable example. [5]

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