

ML Lab (M.Tech)

Assignment 2

Total Marks: 10

Part 1: Calculate the Mean, Median, Mode and Standard deviation

(0.5 + 0.5 + 4 = 5)

1. Load the wine dataset from the given 'wine.csv' file into a variable (say data).
2. From the variable, extract the numerical information into a new variable, say scores.
3. Calculate the row-wise, column-wise, and overall mean, median, mode, and standard deviation of the dataset. In this question write separate functions for each operation and pass the variable(scores) as the parameter to the function.

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Part 2: Calculate the pearson correlation and covariance matrix

(2 + 3 = 5)

1. Take the 'alcohol' and 'Proline' as the features from the 'wine.csv' dataset and calculate the pearson correlation for the same.
2. Take any 5 features from the 'wine.csv' datasets and load them in a matrix. Thereafter, create the covariance matrix of the same.