Assignment 1

Please submit your Assignment 1 and Assignment 2 (compile into one file) to submission portal of EE6407 assignments 1&2 under the folder of Assignments by 23 March 2025.

Question:

The training data is given in TrainingData.xlsx, where columns A-D are the features, and column E gives the class label. The test data is given in TestData.xlsx (30 samples, no label is provided).

(1) Are there any missing values and outliers in the training data? If there are, describe two methods that can address each of the two problems.
(2) Assume the samples with missing values and outliers are simply removed from the training data. Design a Naïve Bayes classifier using this modified training data, show the parameters and the decision rules.
(3) Predict the class label of the test data.