

Assignment 1 (Machine Learning)

Please submit your Assignment 1 and Assignment 2 (compile into one pdf file) to the folder \Assignments\Assignment(Machine Learning Part) by 31 March 2024. Note: Assignment 2 will be released on 19 March 2024.

Question:

Given a 2-class pattern classification problem, train 3 classifiers listed below using the training data, and then predict class labels of the test data.

The training data is given in `data_train`, and the class label is given in the `label_train`. The test data is given in `data_test` (26 samples).

- (1) Bayes decision rule formula, draw a decision boundry, scatter points
- (2) Naïve Bayes
- (3) Linear discriminant analysis formula, draw a linear boundry, scatter points