

## **Assignment 2**

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

### **Question:**

Given a 2-class pattern classification problem, where 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` (23 samples).

- (1) Train a Fisher linear discriminant classifier: detail the learning process, and give the values of weight vector  $\mathbf{w}$  and bias term  $w_0$ , and the decision rule
- (2) Use the trained classifier in part (1) to predict the class label of the test data: give the class labels of all the testing samples .