

## 4033/5033 Assignment: LDA

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In this assignment, we will implement the LDA model and evaluate it on the Diabetes data set. Split the data set into a training set  $S$  and a testing set  $T$ . Task 1. Implement LDA from scratch based on the linear function we evaluated in class. Task 2. Train your model on  $S$  and evaluate its classification errors on both  $S$  and  $T$ . Report your training error testing errors in Table 1.

**Table 1.** Performance of LDA

Training Error	Testing Error
0.2222	0.1979