ECE-503 Prelab 4

Name: Alvi Mahadi ID Number: V00912845 16 July 2019

1 What are the sizes of the normalized training and testing data sets and the associated labels?

Train data - 30×480 , Train label - 1×480 , Test data - 30×89 , Test label - 1×89

2 Suppose you have applied the GD algorithm to minimize $f(\hat{w})$ in (E4.2) and obtained a minimizer w^* , b^* , what are the sizes of w^* and b^* ?

$$w^* = 30 \times 1, b^* = 1 \times 1$$

3 What are sizes of \hat{x}_n and x_n

$$\hat{x}_n = 481 \times 1, x_n = 480 \times 1$$