Neural Networks - Task 2

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1   Introduction

Given a data set with the following structure the aim of this assignment is to implement a probabilistic generative model and a iterative least squares model to compare and contrast their performance on a dataset.

The dataset consists of 270 training examples and 146 test examples which each have 18 features characterizing the class. There are two classed, SAAB (C =2) and VAN (C = 4).

2   Implementation

2.1   Probabilistic Generative Model

2.2   Iterative reweighted least squares (IRLS)

3   Conclusion