

Machine Learning Review

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Introduction

This is a review work for the Machine Learning course in Univeristy of Glasgow.

1 Regression

1.1 Overview

For $x = (x_1, x_2, \dots, x_d)$, where x_i is the i_{th} attribute of x , a lenear model tries to train a linear combination function from these attributes, i.e:

$$f(x) = w_1x_1 + w_2x_2 + \dots + w_dx_d + b$$

which can be written in vector as:

$$f(x) = w^T x + b$$

where $w = (w_1, w_2, \dots, w_d)$.