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Classification

To attempt classification, one method is to use linear regression and map all predictions greater than 0.5 as a 1 and all less than 0.5 as a 0. However, this method doesn't work well because classification is not actually a linear function.

The classification problem is just like the regression problem, except that the values y we now want to predict take on only a small number of discrete values. For now, we will focus on the **binary classification problem** in which y can take on only two values, y and y (Most of what we say here will also generalize to the multiple-class case.) For instance, if we are trying to build a spam classifier for email, then y may be some features of a piece of email, and y may be y if it is a piece of spam mail, and y otherwise. Hence, y (0,1). y is also called the negative class, and y the positive class, and they are sometimes also denoted by the symbols "-" and "+." Given y is also called the label for the training example.

✓ Complete





