Examples

28 June 2024 11:31

Examples

An **example** is a particular instance of data, a vector.) We break examples into two cate

- labeled examples
- unlabeled examples

A **labeled example** includes both feature(s)

labeled examples: {features, label}: (x, y)

Use labeled examples to **train** the model. In examples would be individual emails that us spam."

For example, the following table shows 5 la information about housing prices in Californ

housingMedianAge (feature)	totalRooms (feature)	totalBedrooms (feature)	n (
15	5612	1283	6
19	7650	1901	8
17	720	174	8
14	1501	337	7
20	1454	326	6

An **unlabeled example** contains features bu

x. (We put **x** in boldface to indicate that it is
gories:

and the label. That is:

our spam detector example, the labeled
sers have explicitly marked as "spam" or "not

beled examples from a data set containing
nia:

nedianHouseValue **label)**
6900
0100
5700
3400
5500

t not the label. That is:

unlabeled examples: {features, ?}: (x, ?)

Here are 3 unlabeled examples from the sa
exclude medianHouseValue:

housingMedianAge (feature)	**totalRooms (feature)**	**totalBedrooms (feature)**
42	1686	361
34	1226	180
33	1077	271

Once we've trained our model with labeled e
label on unlabeled examples. In the spam d
that humans haven't yet labeled.

me housing dataset, which

examples, we use that model to predict the
etector, unlabeled examples are new emails