**Review of the classification problem**

We all are aware that Machine Learning can be differentiated in 2 terms:

1. Unsupervised Learning
2. Supervised Learning

In **Unsupervised Learning**, you usually don’t have a label so you are forced to split the data into groups by looking at the dataset and find the patterns hidden.

In **Supervised Learning**, we already have labels for the data. It can be split into :

* Classification
* Regression

In Classification, you try to split the data into categories, whereas in Regression you’re trying to predict the values of some function.

So oddly Logistic “Regression” despite its name is actually used for Classification.

Ex. - classifying the digit a person is trying to write , image classification say whether the animal is cat or dog.