**100 Days of Machine learning #day-6**

Types of Machine learning based on how machine learns lets start

The model learns two ways :

1. Memorizing : this is called **Instance Based Learning** (Ratane wala kam)
2. Generalizing : this is called model base learning (sikhne wala kam)

|  |  |  |
| --- | --- | --- |
| IQ | CGPA | PLACEMENT |
| 80 | 8 | Y |
| 70 | 7 | n |

**Instance Based Learning:**

What the instance based model does is we won’t learn anything from data we just save the data as it is in this we focus on similarities where the data point is found it neighbor tell something about it so what we do is we find the distance and took the nearest 3 element and your result will be according to it. This is like **k nearest neighbor. This is also known as lazy learner**

Examples are knn, kernel functions etc.

**Model Based learning:**

In this our model wants to understand the behavior of the dataset by mathematical function it draws a boundary that is decision boundary or function the good part is that we don’t need a training points

Example of Model based learning are linear regression, logistic regression, decision tree etc.

