**Supervised Learning:(Give Data and Labels -> Deep Learning**

1. Classification(Categorical Outcomes)
2. Regression(Numeric Outcomes)

**UnSupervised Learning:**

Only Data is provided:

**Reinforcement Learning:**

It learnt from environment.

**Linear Regression:**

It define answer in numeric like how many hours movie was watch or how much is house price.

**Absolute Trick:**

Y = mx+c

Learning rate = 0.1

Y = 2x+3

Lets x = 0.5 and add 0.1 in c

Y = 2.5+3.01 + directon line

Lets x = - 0.5 and add 0.1 in c

Y = 1.5+3.01 - directon line

**Square Trick:**

Y = mx+c

Learning rate = 0.01

Y = 2x+3

Lets x = 0.05 and add 0.01 in c

Y = 2.5+3.01 + directon line

Lets x = - 0.5 and add 0.1 in c

Y = 1.5+3.01 - directon line