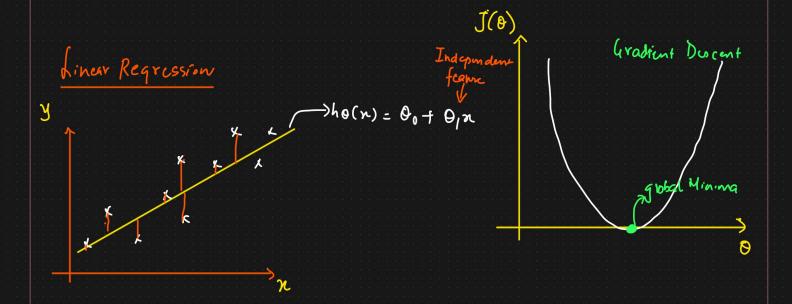
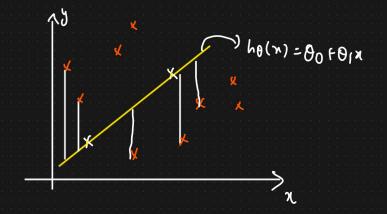
Ridge Regression, Rasso Regression, Elasticnet Regression



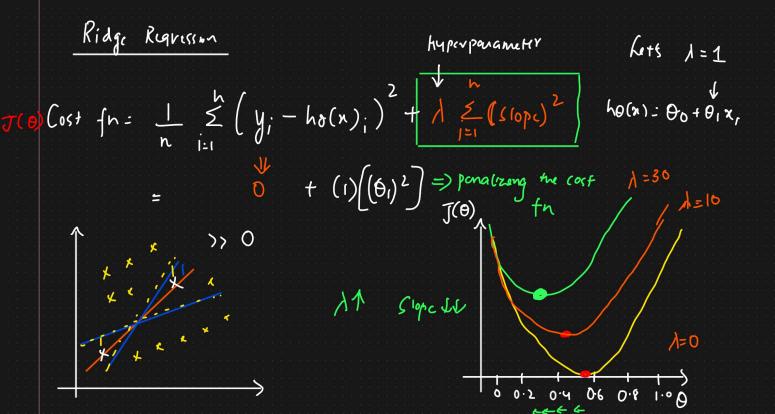




Cost
$$fn = \frac{1}{h} \sum_{j=1}^{h} (y_j - h_0(n)_j)^2$$
 0

DATASET

TRAIN DATAGET -> ACCTO



Simple Linear Regrenion

$$ho(n) = \theta_0 + \theta_1 x$$

Multiple Kinear Regression

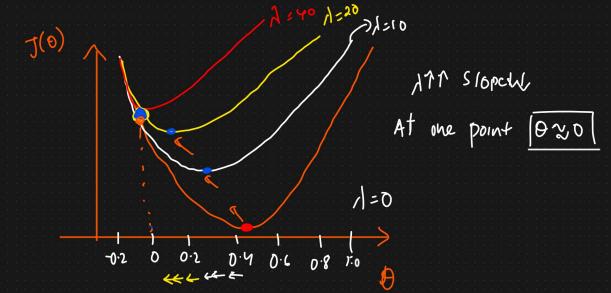
ho(n)=00+01x1+02x2+03x3.

② Kasso Regression (K, Regnralization)
$$\rightarrow$$
 Feature Selection

10)=Cost fn = $\frac{1}{n}$ $\lesssim (y; -ho(x);)^2 + 1 \lesssim |slope|$

unit change in on 0-65 Change in y

$$(ost fn = \frac{1}{n} \sum_{i=1}^{n} (y_i - ho(x)_i)^2 + \lambda \sum_{i=1}^{n} |slope|$$



$$ho(x) = 0.52 + 0.65 x + 0.72 x + 0.12 x 3$$
 { France Scherons}

 $ho(x) = 0.52 + 0.65 x + 0.72 x 3$

1, 1/2 { Hypupavameter Tunning }