- -> dinar Ryrusion (LR)
- Statistical dearning Algo, not a ML +190
- The output g a LR model is always a continous variable
- The target will be remercial -> continues) e.j. selvey, Nock priva etc.
- -> It tries to fiel a straight dire, that fit but to your data dinear

 Passed

 Passed

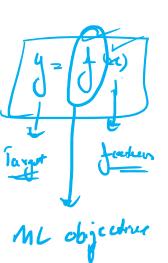
 Passed

 A straight line.

Decision Tra Classified Junction Mathetial equation 0/1 of any ML Mgo Mc Modd

(2 -var)

1.174 2.761



Sin(0) = (-1, -1)

(os(a) -1 (-1, +1)

tar(a)=> [-a, + ~]

tan 0' = 0

, tun (90) + =

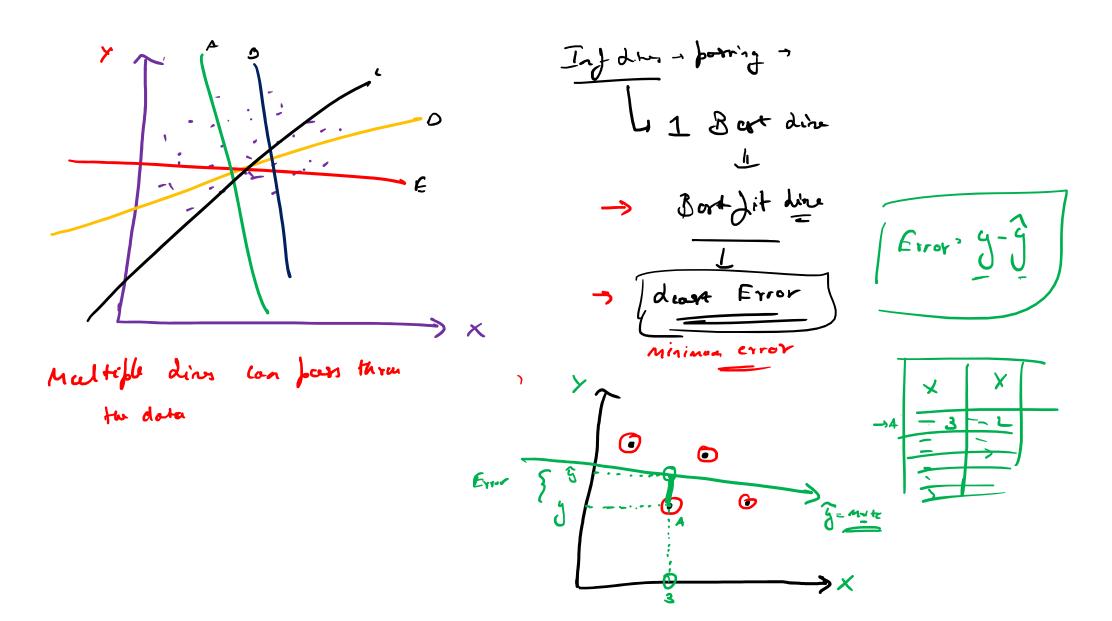
mco a -ve dxn ton (270') = tun (-90") =

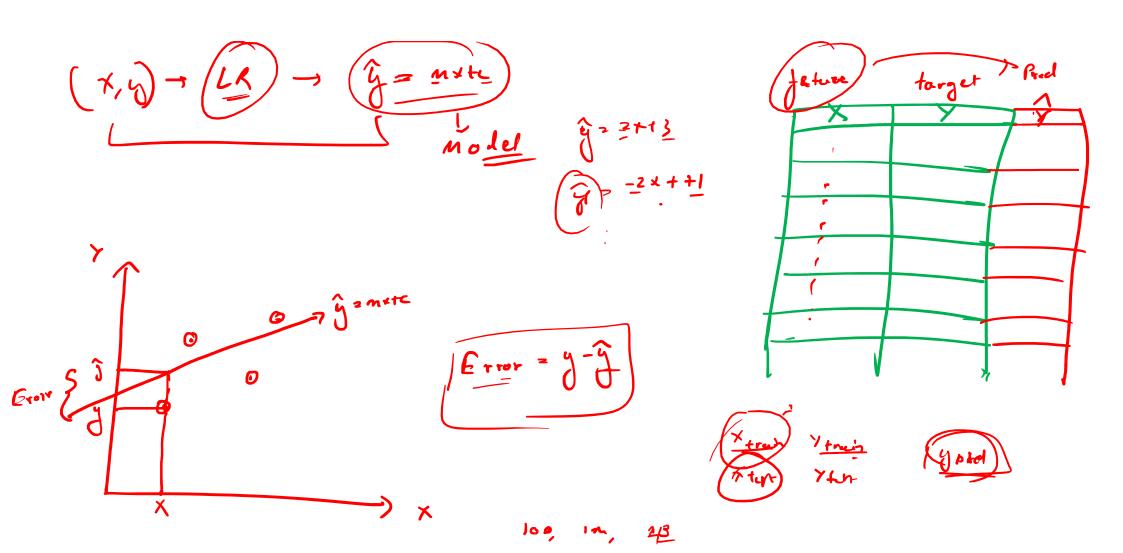
the range of output will always be [-00, +00]

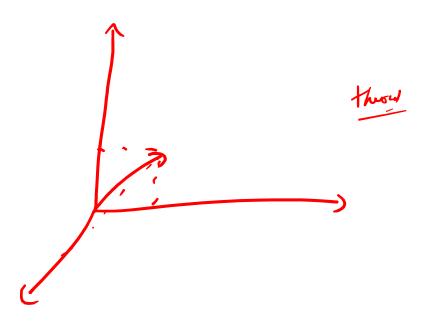
I) m>0 + tre den

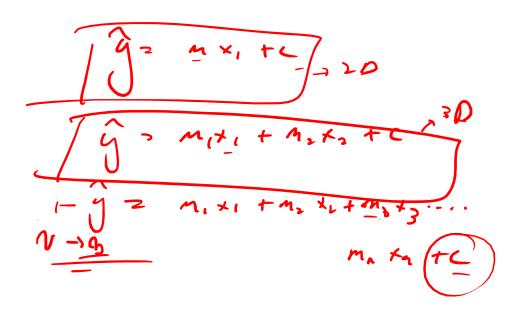
X = 0 = 0 the dire is perellel to x -axis

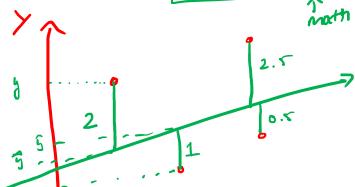
the angle the die is making wit x-axts











now to get nid of (ve) sign?

$$\leq (y-\hat{y})^2 = SSE, Sung Sq. Errors$$

Is mis logically correct?

logically Incorrect

beauer of (-ve) Righ

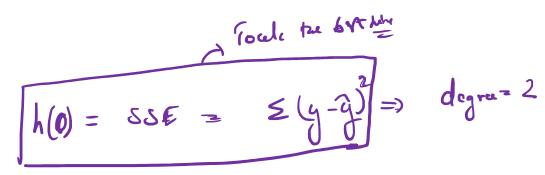
Error
$$f_n = (ost f_n = (h(0)))$$
 $r_i p =$

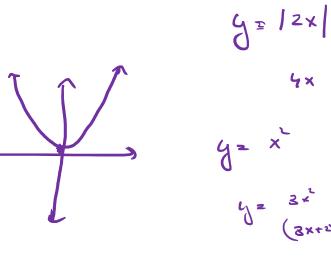
$$h(0) = SAE = \{y-y\} \rightarrow degru = 1 \rightarrow dinear \rightarrow 84$$
 raight him

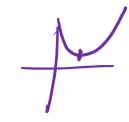
$$h(0) = SHE^{\frac{1}{2}} = 2199$$

$$h(0) = 8SE^{\frac{1}{2}} = 181$$

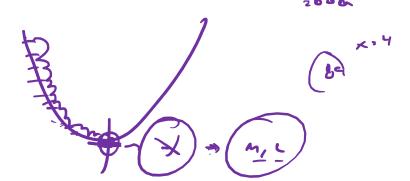
Bost det du 10 minime error

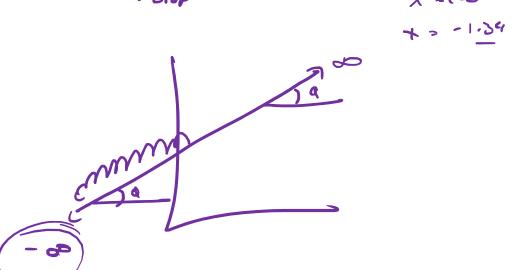






X-100

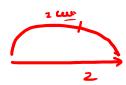




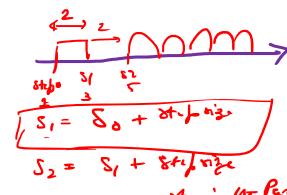
X = 0

$$h(u) = SJE = E(y-g)^{2}$$
 $MSE = 1 E(y-g)^{2}$

$$h(0) = \frac{1}{N} \ge \left(y - (m \times tc)\right)^{2}$$



Gradient Descent

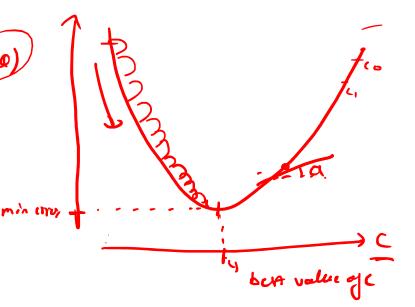


mowing on a Area y loo Part

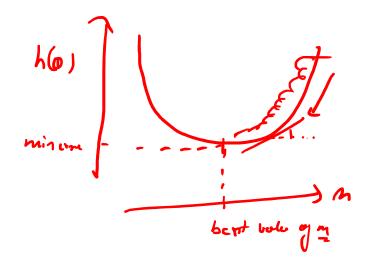


51 = 50 + (84 my + of)

more one aread



$$\int_{-\infty}^{\infty} \frac{dx}{dx} = \frac{dh(a)}{dx}$$



$$\frac{d(h(a))}{d(m)} = \frac{1}{N} (x).(2) \le (y-mx-c) = \frac{-2x}{N} \le (y-mx-c) = \frac{-2x}{N} \le (y-\hat{y})$$

$$\frac{d(h(a))}{dc} = \frac{1}{N} (2) \cdot (-1) \geq (y-mx-c) = \frac{-2}{N} \geq (y-mx-c) = \frac{-2}{N} \geq (y-y-y-c)$$

