$$\frac{1}{2} = \frac{1}{2} - \frac{1}{2}$$

$$\frac{1}{2} = \frac{1}{2} - \frac{1}{2} = \frac{1}{2}$$

$$\frac{1}{2} = \frac{1}{2} - \frac{1}{2} = \frac{1}$$

$$W = \begin{bmatrix} w_0 \\ w_1 \\ w_2 \end{bmatrix}$$

$$\mathcal{J}(w) = \begin{bmatrix} v_0 \\ v_1 \\ v_2 \end{bmatrix}$$

1-1000

 $\langle \chi^0, \gamma^0 \rangle$

Listory I in Conker MI J(w) et (1) Concare Conven

$$J(w) = \sum_{i=1}^{n} e_{i} w_{i} = \sum_{i=1}^{n} (y_{i} - y_{i})$$

$$= \sum_{i=1}^{n} |y_{i} - y_{i}|$$

$$\int (w) = \sum_{i=1}^{n} (y' - wx^{i})^{2}$$

$$\int (w) = \|y' - wx^{i}\|^{2} = (y - wx)^{T} (y - wx) \|x\|^{2} = \sum_{i=1}^{n} x_{i}^{2} = \sqrt{x}x$$

$$\int (w) = (y' - xw)(y - wx)
 = \sqrt{y} - y'wx - xwy + xww x$$

$$= \sqrt{y} - y'wx - xwy + xww x$$

$$\int (w) = y'y - 2x^{T}wy + xww^{T}x$$

 $J(w) = y^{T}y - 2xwy + x^{T}ww'x$ (W (W) De (M)) $0 = \chi \times \chi + \chi \times \chi + \chi \times \chi = 0$ XEIR TRY +2 rwx=0 => rwx= ry YEIR = $\frac{1}{2}$ $(\chi\chi) = \chi\chi$ prink urp

X F IS 2 JCM) V = 60000

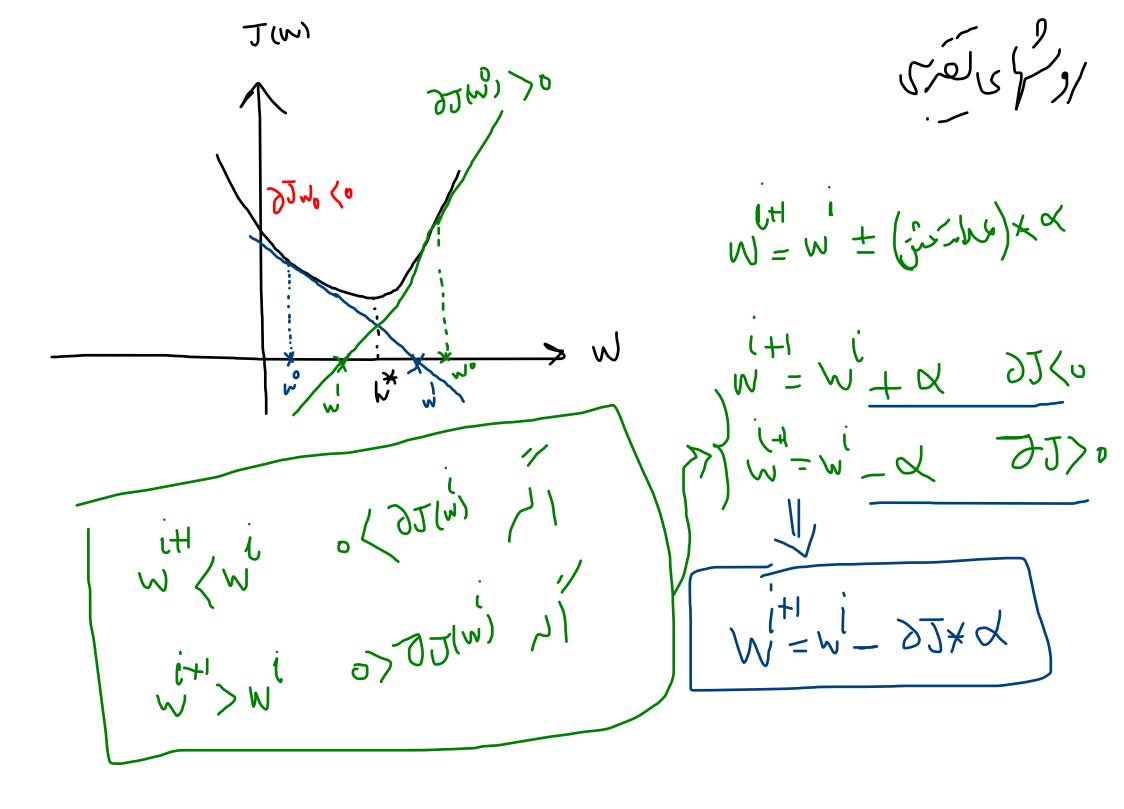
Mean Square Ellor
[MSE]

25×25

in 60,000

o-9,100 il belle 10,000

$$\frac{1}{2} = (x^{T}x)^{T}y$$



Gradient Descent (GD) w = 66

(F.D.
$$W: W = B \times B$$

$$X = \begin{bmatrix} -1 \\ -1 \end{bmatrix}$$

\wi-wi-1\ (eps