

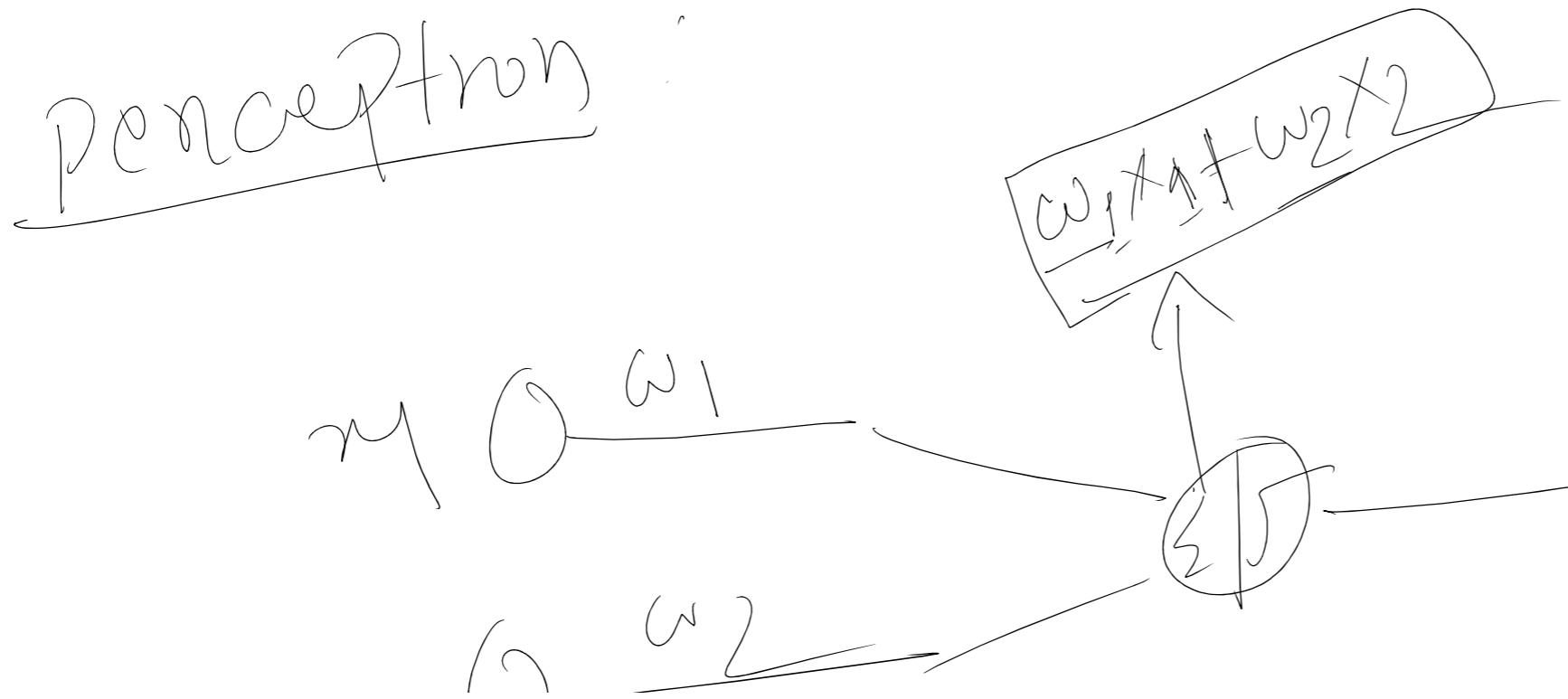
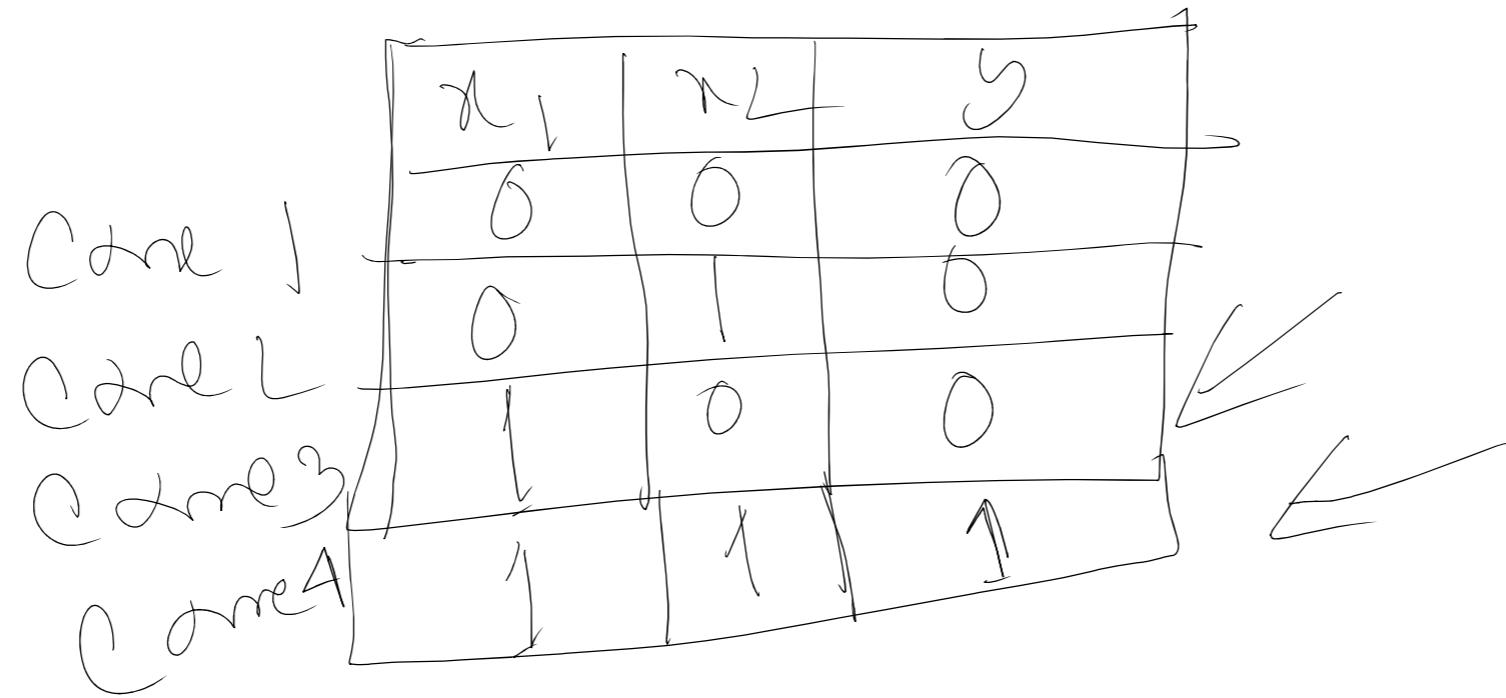
Weighted update: $w_{\text{new}} = w_{\text{old}} + \eta(y - \hat{y})x_i$

Logical gate: AND, OR, XOR,

AND



AND



$$w_0 \quad w_1$$

$$\Rightarrow w_1 = 1.2$$

$$w_2 = 0.6$$

$$\eta = 0.5 \quad / \text{threshold} = 1$$

Cond: 0: $x_1 = 0 \quad w_2 = 0 \quad y = 0 \quad \text{error} = 0$

$$w_1 x_1 + w_2 x_2 \stackrel{y}{=} 0 \quad \boxed{\text{L}}$$

Cond: 1: $x_1 = 0 \quad w_2 = 1 \quad y = 0, \quad \checkmark$

enron 0

$$\text{Come in } \cdot \text{ if } y = 1 \quad \checkmark \quad \checkmark$$

$$\Rightarrow w_1x_1 + w_2x_2 \geq 0.6 \times 1 = \underline{\underline{0.6}}$$

$$\Rightarrow w_{\text{new}} = w_{\text{old}} + \eta(y - \hat{y})x_i$$

Come in δA

$x_1 = 1, x_2 = 1, y = 1$

6 ea

new work

$$y = 1$$

$$vn = 0$$

$$\Rightarrow w_1x_1 + w_2x_2 \geq$$

$$\Rightarrow 1.2x_1 + 0.6x_2$$

$$= 1.8 > 1$$



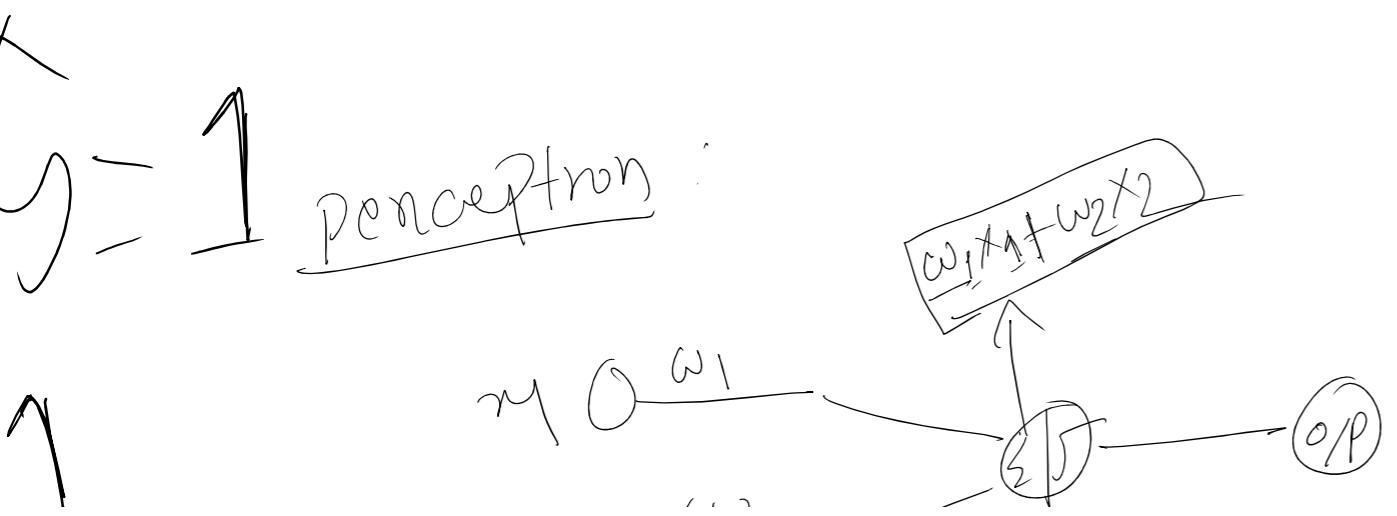
$$w_1 = 1, w_2 = 0$$

$$y = 0$$

0

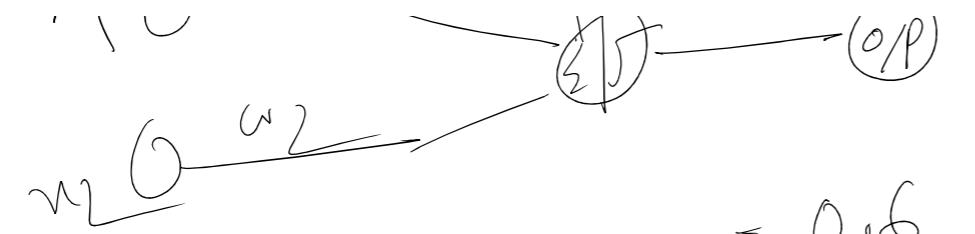
$$\omega_1 = 1.2 \quad \omega_2 = 0.6$$

$$\gamma = 0.5 \quad / \text{threshold} = 1$$



$$\text{error} = \gamma - V = -$$

$$\begin{aligned} & \Rightarrow w_{\text{perp}} + w_{\text{parallel}} \\ & \Rightarrow 1.2 \times 1 \\ & \Rightarrow 1.2 > 1 \rightarrow y = 1 \end{aligned}$$



$$\Rightarrow w_1 = 1.2 \quad w_2 = 0.6$$
$$\eta = 0.5, \text{ threshold} = 1$$

Weight Update

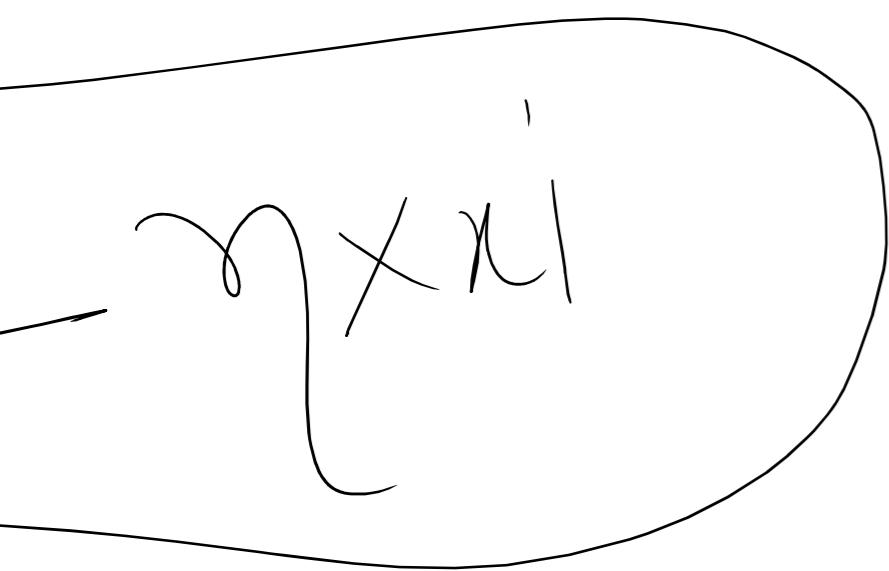
$$w_{\text{new}} = w_{\text{old}} + \eta (y - \hat{y})^2$$

$$w_{\text{new}} = w_{\text{old}} + \eta x$$

(+) \rightarrow $w_{\text{new}} = w_{\text{old}} -$

Li

)
enronXNL



$$\begin{array}{c} w_1 \\ \diagup \\ \diagdown \end{array}$$

$$w_{1\text{new}} = \underline{w_{1\text{old}}}$$

$$w_{1\text{new}} = 1.2 - 0.5 = 0.7$$

$$\begin{array}{c} w_2 \\ \diagup \\ \diagdown \end{array}$$

$$w_{2\text{new}} = \underline{w_{2\text{old}}} -$$

$$w_{2\text{new}} = w_2^{(0)} +$$

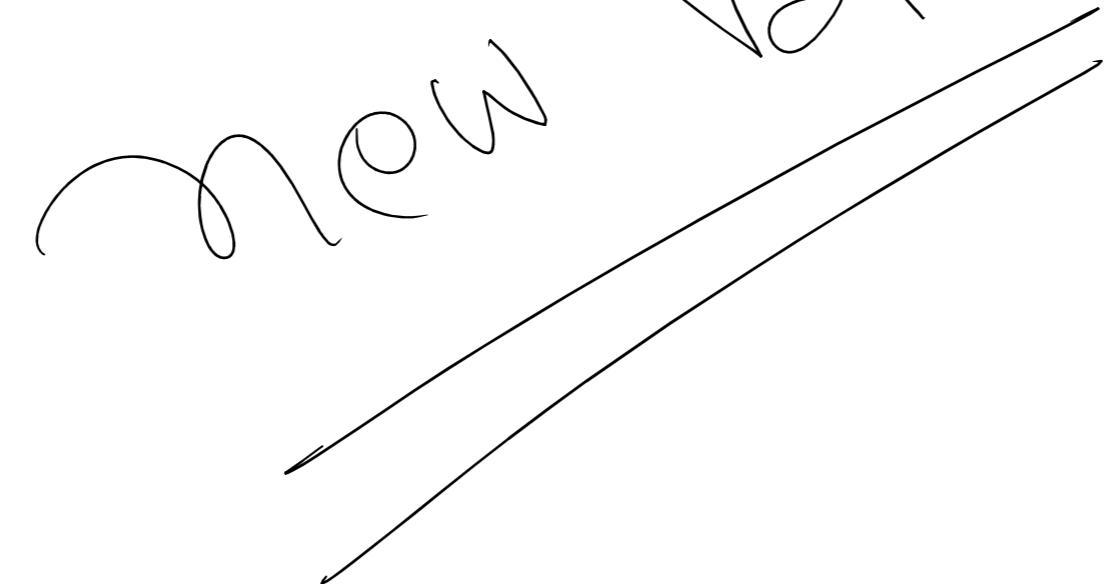
$\rightarrow \mathcal{N}x_1$

$\mathcal{D}_\phi f$

$\rightarrow \mathcal{N}x_2$

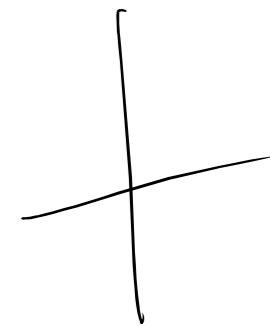
f

new value



$$\omega_{\text{new}} = 6.7$$

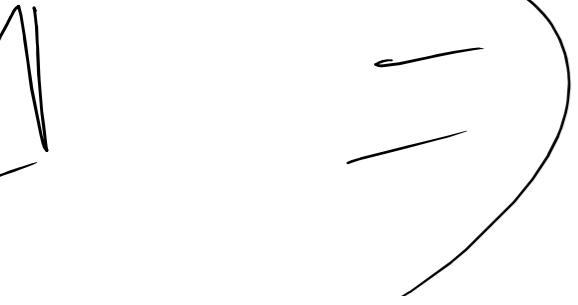
$$\omega_{\text{new} X^A}$$



$$\omega_{\text{new} X^B}$$

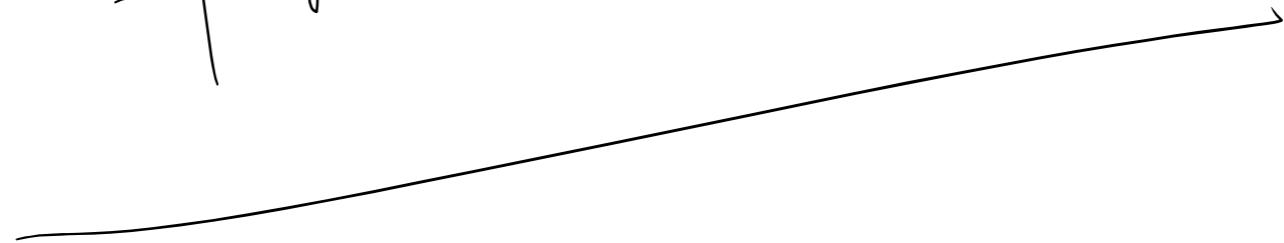
$$\omega_2 \text{ new} = 0.6$$

~~$$\omega_2 \text{ new } \times n_2$$~~



$U \downarrow W$

Three mob



$G =$

$y = 0$

$\int_{\infty}^{\infty} a - 0$

?

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2nd ,

U - i - u

open -

