Magning Sound Leide

Question) Solve the XOR problem using Logistic Regression.

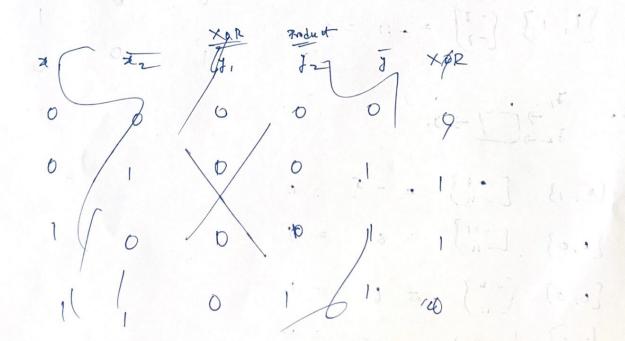
$$\omega = \begin{bmatrix} \frac{5}{5} \end{bmatrix}, b = -8.$$
 $\omega = \begin{bmatrix} -11 \\ -11 \end{bmatrix}, b = 6.$

$$\omega = \begin{bmatrix} -7 \\ -7 \end{bmatrix}, b = 3.$$

1.
$$x_1 \rightarrow x_2 \rightarrow x_1$$

1.
$$z = x * w + b$$

$$k = 1/(1+a)$$



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1.
$$[0,0][\frac{5}{5}] - 8 = -8 = 0$$

 $[0,0][\frac{5}{5}] - 8 = -3 = 0$
 $[1,0][\frac{5}{5}] - 8 = 2$

$$2, \quad \begin{matrix} \chi_1 & \to \\ \chi_2 & \to \end{matrix} \qquad \rightarrow \lambda$$

$$\begin{bmatrix}
0, 1 \\
0, 0
\end{bmatrix}
\begin{bmatrix}
-11 \\
-11
\end{bmatrix} = -5 = 0$$

$$\begin{bmatrix}
0, 0
\end{bmatrix}
\begin{bmatrix}
-11 \\
-11
\end{bmatrix} = 6 = 1$$

$$\begin{bmatrix}
1, 0
\end{bmatrix}
\begin{bmatrix}
-1 \\
-11
\end{bmatrix} = -5 = 0$$