Lecture 07 Wide & Deep

Matrix Multiplication

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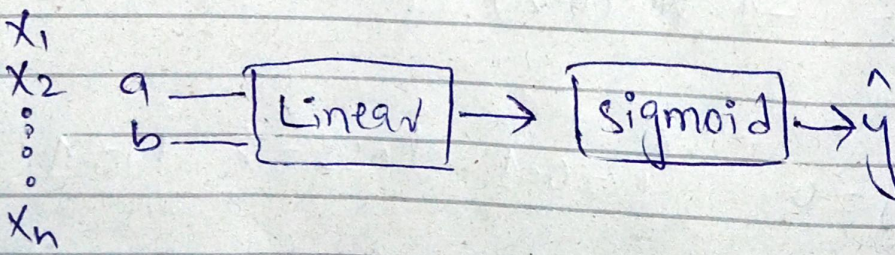
$$X = [[1,2,3],[3,4,5],[6,7,8],] \qquad y = [[1],[0],[1],]$$

$$XW = \hat{y}$$

$$\begin{bmatrix} a_1 & b_1 \\ a_2 & b_2 \\ \vdots & \vdots \\ a_n & b_n \end{bmatrix} \begin{bmatrix} w_1 \\ w_2 \end{bmatrix} = \begin{bmatrix} y_1 \\ y_2 \\ \vdots \\ y_n \end{bmatrix}$$

$$X \qquad W \qquad = \qquad y$$



———X———X———