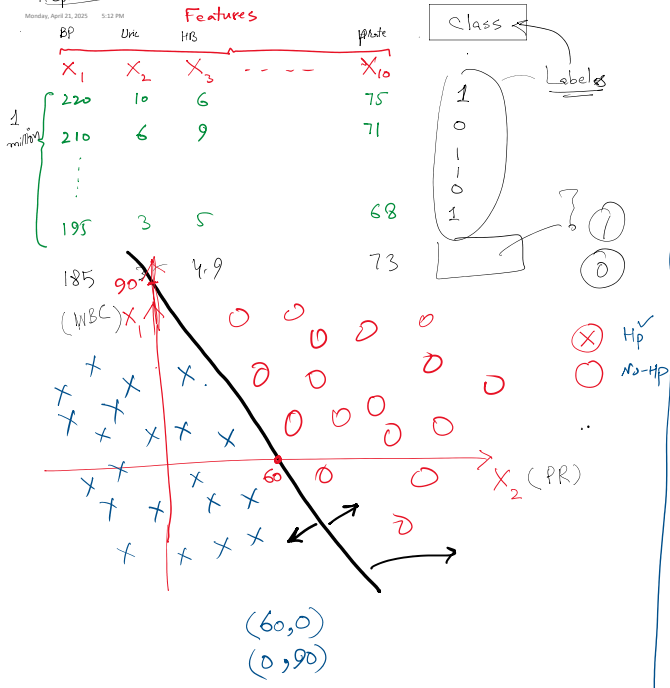


Hepatitis

Monday, April 23, 2023 5:12 PM



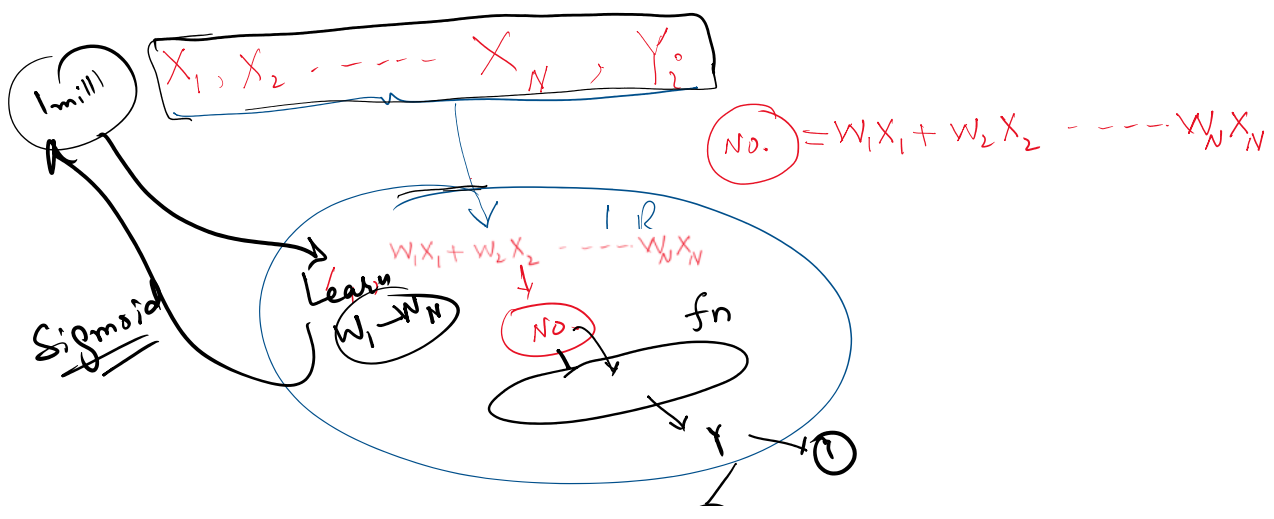
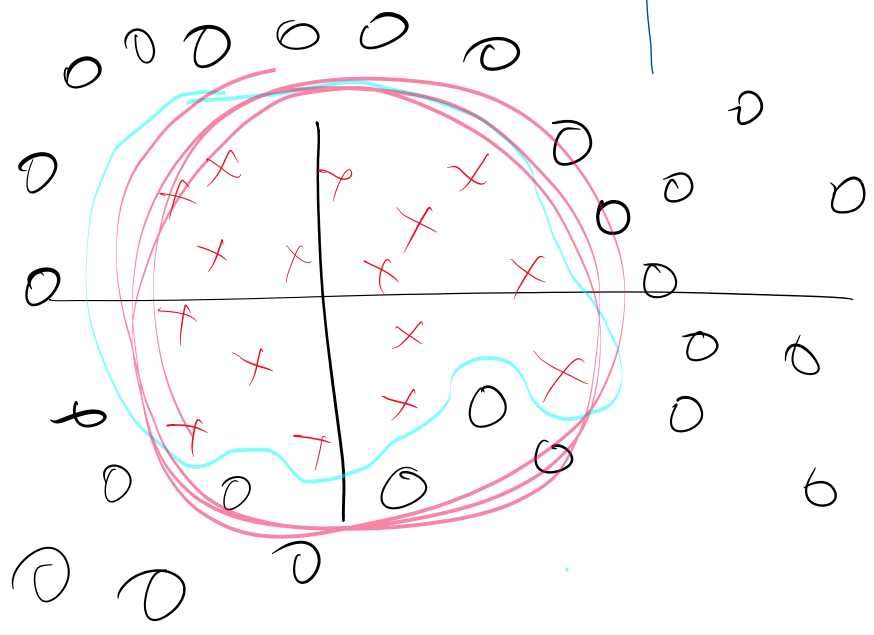
Two-point form

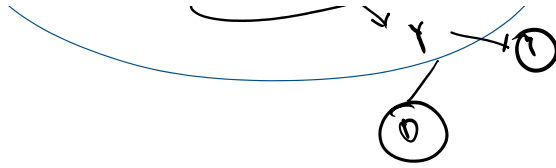
$$X_1 = -4X_2 + 90$$

$$X_1 + 4X_2 - 90 = 0$$

$$\begin{matrix} X_1 - 100 \\ X_2 - 75 \end{matrix} \quad (75, 100)$$

$$100 + 4(75) - 90 = 310 > 0$$



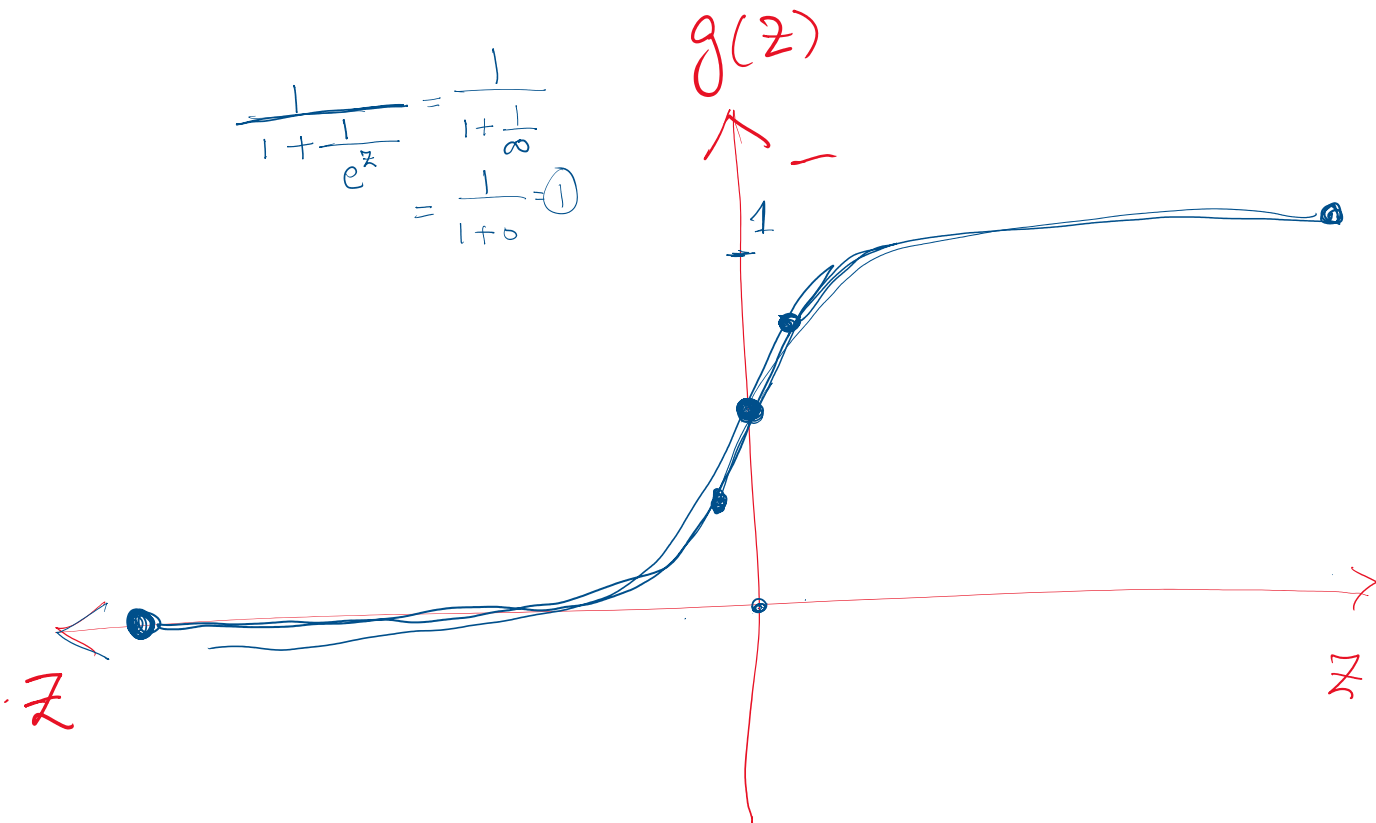


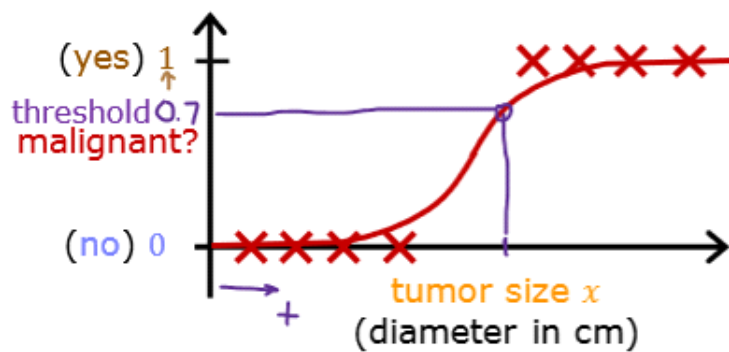
$$g(z) = \frac{1}{1+e^{-z}}$$

g Variable = z

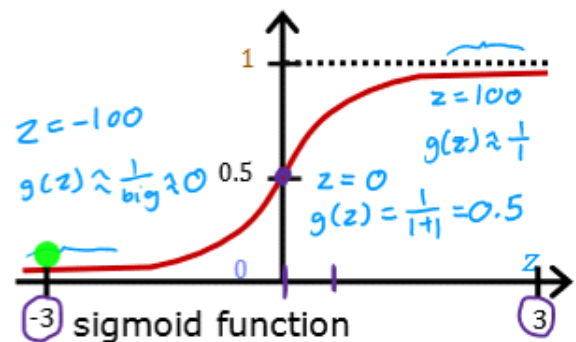
z	g(z)
0	0.5
z >>> 0	1
z <<< 0	0
1	0.73
-1	0.26

$$\frac{1}{1+\frac{1}{e^z}} = \frac{1}{1+\frac{1}{\infty}} = \frac{1}{1+0} = 1$$





Want outputs between 0 and 1



logistic function

outputs between 0 and 1

$$g(z) = \frac{1}{1+e^{-z}} \quad 0 < g(z) < 1$$

$$z = w_1x_1 + w_2x_2 + \dots + w_Nx_N =$$

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