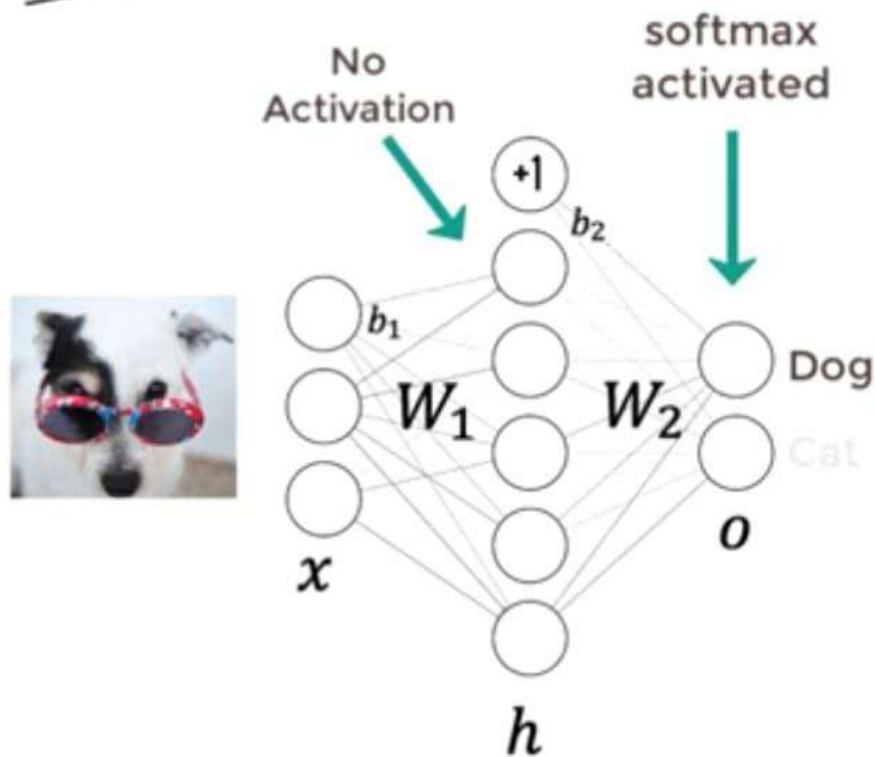


Case 1

Activation Functions

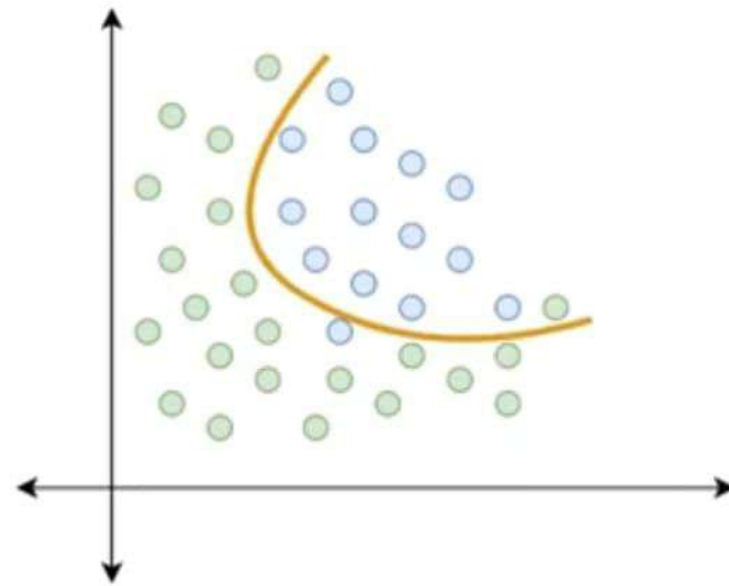
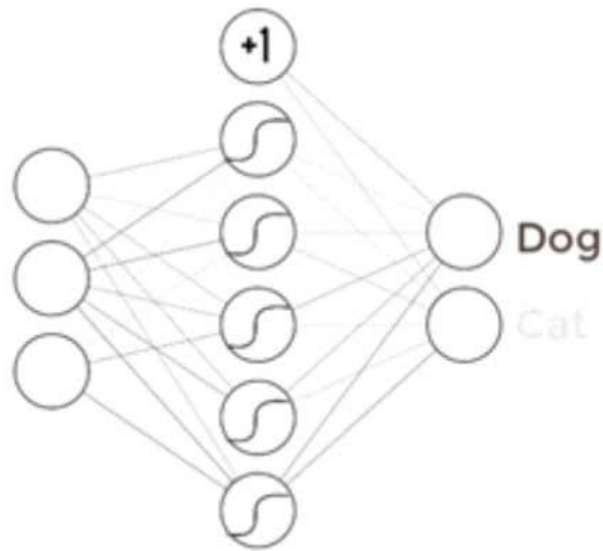
Why is the boundary a line?

$$o = W_2h + b_2$$



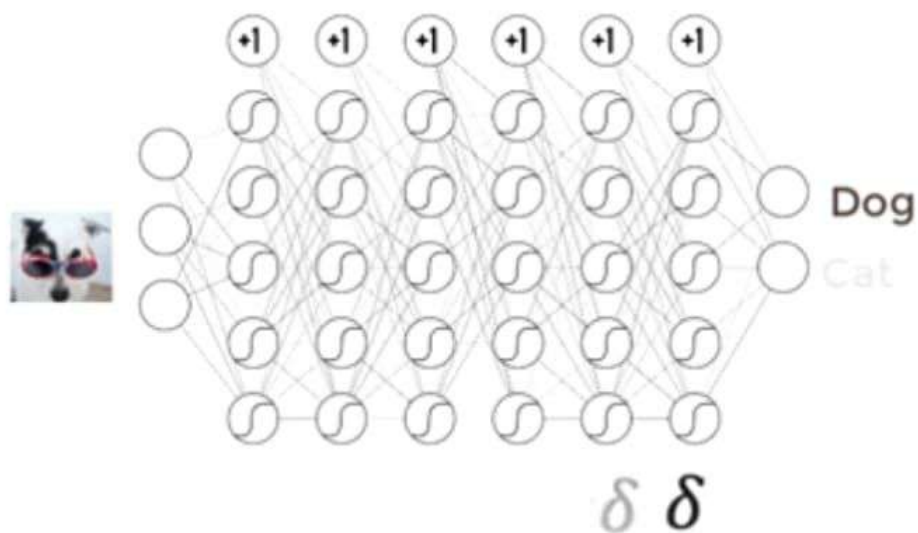
Case II

Activation Functions

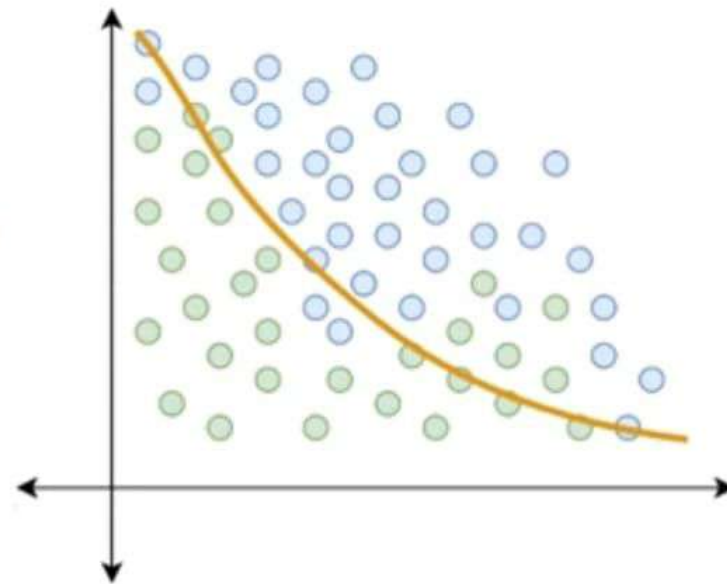


Case III

Activation Functions



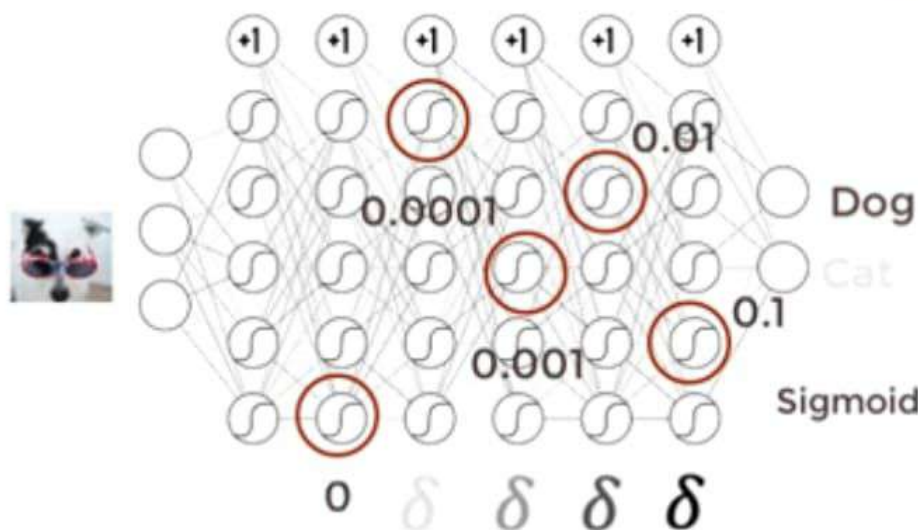
Vanishing Gradient Problem



Case III

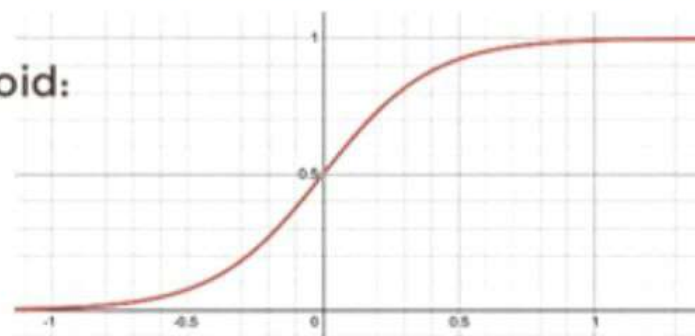
Activation Functions

Why do gradient vanish with sigmoid?

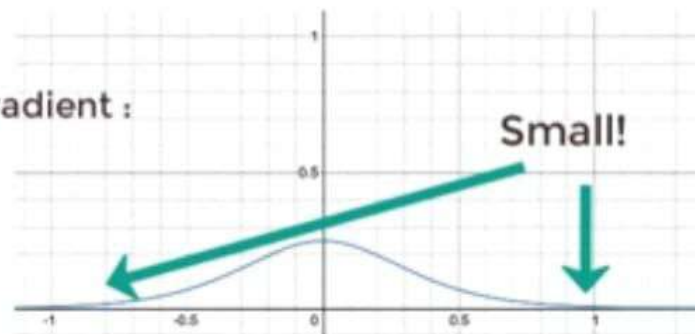


Vanishing Gradient Problem

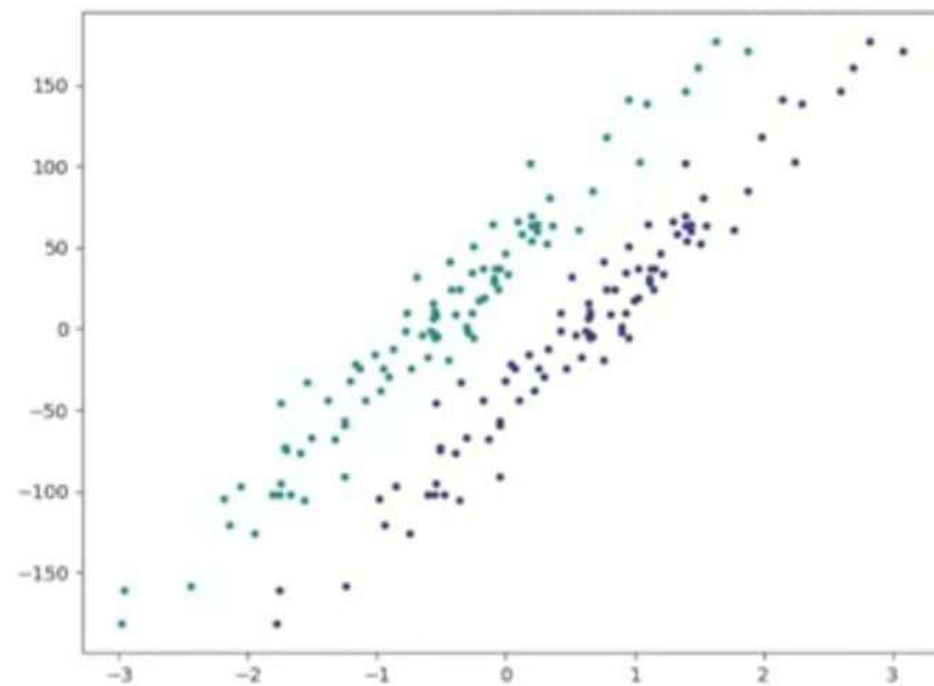
Sigmoid:



Sigmoid Gradient :



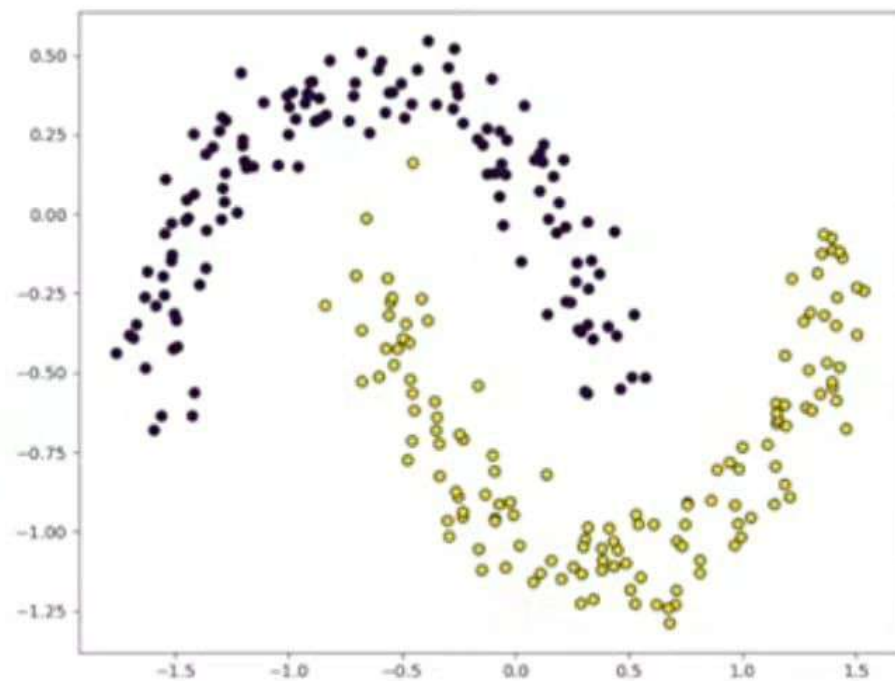
w^2



$\tau \cdot x$



w^T



$w^T \cdot x$

