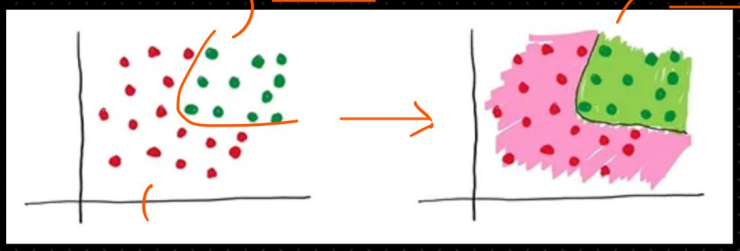
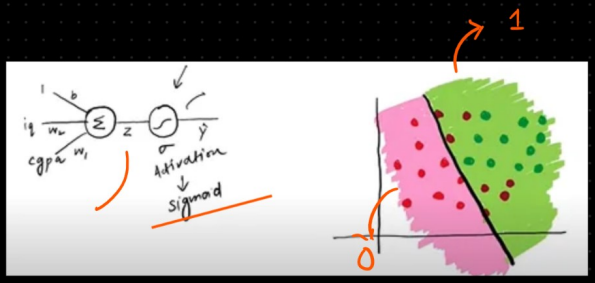
Multi Layer Perceptron



to capture the non-linear relationship

Application ⟶ Regression & Classification

IQ	CGPA	Placement



$z = w_1 * CGPA + w_2 * IQ + b$

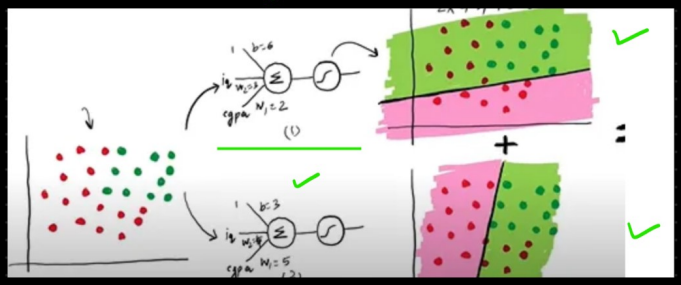
Sigmoid ← Logistic Regression

$f(z) = \frac{1}{1+e^{-z}}$ (Activation function)

(Probability

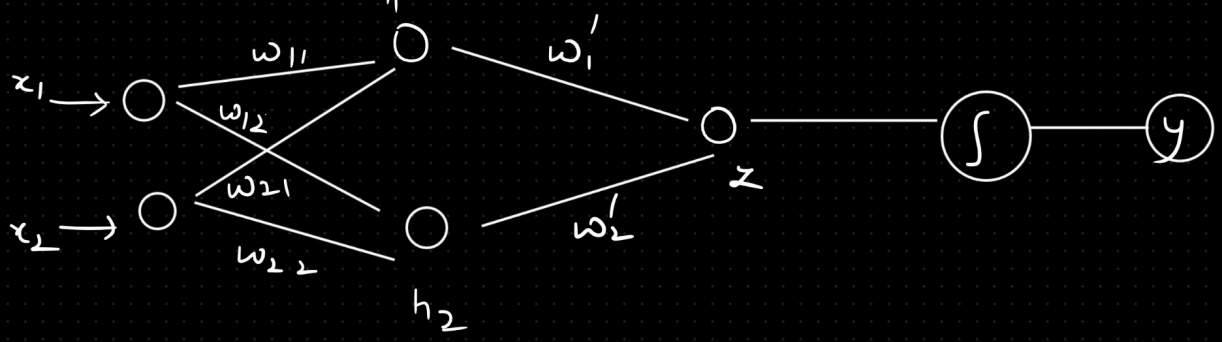
$> 0.5 \longrightarrow 1$

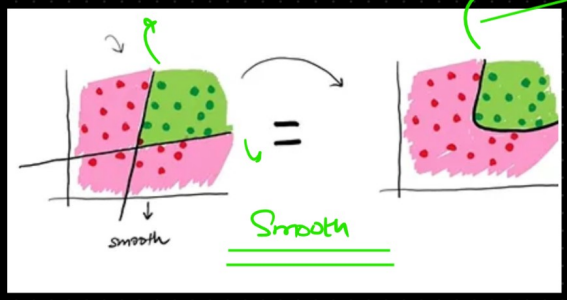
$< 0.5 \longrightarrow 0$



Superimpose

Include non-linear decision boundaries



$$h_1 = x_1 * w_{11} + x_2 * w_{21}$$

$$h_2 = x_1 * w_{12} + x_2 * w_{22}$$