Sep 24, 2024

Xi yi 
$$\hat{y}_i$$

Xi yi  $\hat{y}_i$ 

Xi yi  $\hat{y}_i$ 

Xi yi  $\hat{y}_i$ 

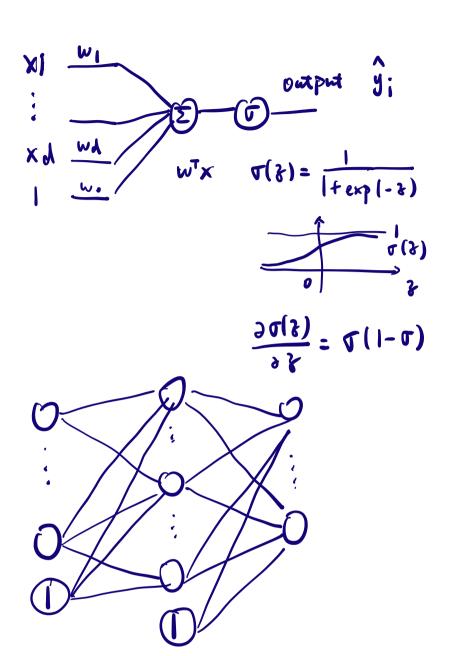
Are some as  $\hat{y}_i$ :

 $\hat{y}_i = f(x_i)$ 
 $\hat{y}_$ 

$$J(w) = \sum_{i=1}^{\infty} -y_i \text{ Ws } \hat{y}_i - (1-y_i) \text{ log} (1-\hat{y}_i)$$

Cross entropy / by loss

Gradient Descent



input X hidden output
$$h = w_0^T X \qquad 0 = w_0^T h = \frac{w_0^T (w_0^T X)}{\text{furtion}} \text{ furtion}$$

$$h = \sigma(w_0^T X) \qquad \sigma(w_0^T h)$$

non-linear activation function Cigmoid V(8)

$$\frac{1}{3}$$
  $\frac{1}{2}$   $\frac{1}$ 

