

$K=2$ 1 vettore w da stimare

$$\rightarrow \Pr(y=1|x) = \sigma(w^T x) = \frac{1}{1 + \exp(-w^T x)}$$

$$\rightarrow \Pr(y=0|x) = \sigma(-w^T x) = \frac{1}{1 + \exp(w^T x)}$$

$$\frac{\exp(w^{(j)T} x)}{\sum_{k=1}^K \exp(w^{(k)T} x)}$$

$K=2 \quad j=1$
 $w^{(2)} = 0$

$$\rightarrow \frac{\exp(w^{(1)T} x)}{\exp(w^{(1)T} x) + \underbrace{\exp(w^{(2)T} x)}_1}$$

$$\parallel$$

$$\frac{\exp(w^{(1)T} x)}{1 + \exp(w^{(1)T} x)}$$

$w = w^{(1)}$

$K \geq 2$ $K-1$ vettori $w^{(1)}, \dots, w^{(K-1)}$ da stimare
 e $w^{(K)} = 0$