

Cogistic fu Signwid

Gradient Descent y=07x = 0,+0 0,7x. 1) start with some vand ), O<sub>x</sub> Đ 1.5 001 Plitz

rypotheris clots

y= 6 (0 x) = 1  $0^{(0)} = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$ X = 8.01 (1st fuetion: MSE ((y-y)) == conex Classification. Suitable Cost fraking e = 0 (bg-libelihard, cross-entropy) c = 0 L (D, fo): I - R  $-(y\log \hat{y} + (1-y)\log (1-\hat{y}))$   $-\infty - 7$   $-\infty - 7$   $-\infty - 7$  $l_{ny} = x \quad q^{7} : 1 \cdot 0$   $e(l_{ny}) = e^{x} \quad e^{(1)} = 0$   $y = e^{x} \quad e^{(1)} = 0$   $y = e^{x} \quad e^{(1)} = 0$   $x = 1 \quad y = 0$  $e(hy)=e^{x}$   $y=e^{x}$  e(-1)y=0 y=0 y=0(1-y)ln(1-y). -ylny f(1) = y lng. 7y f(y) y=0=0 f(ylg=1=