## FORWARD PROPOGATION:

$$A^{(0)} = X (Teuxm)$$

$$Z^{(1)} = W^{(1)}A^{(0)} + b^{(1)}$$

$$A^{(1)} = g(Z^{(1)}) \Rightarrow ReLu(Z^{(1)})$$

$$Z^{(2)} = W^{(2)}A^{(1)} + b^{(2)}$$

$$A^{(2)} = g(Z^{(2)}) \Rightarrow Softmax(Z^{(2)})$$

Swi Swi Szi SAZ SAZ SZZ Swi Swi Szi SAZ SZZ SZZ = \$f((1). A(0). W(12). 2 (A(2) - Y). Im 86 = 821. 8A1. 822. 8A2 S60 861 821 8A1 822 822 = \$ f'(x). W(2). 2 (A(2) - J). In ACTIVATION FUNCTIONS d22= 2(A(2)-y)/m -A 1 ReLu: dw2= dz2. A(1) +(x)=max(0,x) 

ezi E ezi db1 = ( (dz1) - () NEVRAL NETWORK: hidden Congre ontput Congr

dz1= w2.dz2.f'(z1)-0

(m,1,1,1,1)

dwx1= dz1.x

BACKWARD PROPOGLATION:

$$\frac{560}{500^{2}} = \frac{52^{2} \cdot 8A^{2}}{800^{2}} \cdot \frac{860}{800^{2}} = \frac{52^{2} \cdot 8A^{2}}{800^{2}} \cdot \frac{82^{2} \cdot 8A^{2}}{800^{2}} = \frac{600^{2}}{800^{2}} \cdot \frac{82^{2}}{800^{2}} \cdot \frac{8A^{2}}{800^{2}} \cdot \frac{8A^{$$