

Forward Pass.

 $70 = \omega_0.X$, ho = 90(20) = 90 > 20 < 0# after a chivehion 20, else.

$$\frac{\omega_1}{\omega_2}$$

7=10,20, R=9,(2,1= 50,7,60)

 $Z_2 = w_2 A_2 + w_s R_0$ In this no activation is applied $S_0 \cdot R_2 = g_2(Z_2) = Z_2 = \hat{y}$

Backward Pass:

Since no 22, we chant with 723

$$0 \frac{\partial L}{\partial Z_0} = \frac{\partial L}{\partial \hat{y}} \cdot (\frac{\partial \hat{y}}{\partial Z_0}) = \begin{bmatrix} \frac{\partial L}{\partial \hat{y}} & 1 \\ \frac{\partial \hat{y}}{\partial \hat{y}} & 1 \end{bmatrix}^*$$

Bince 9 = 22

$$\frac{\partial L}{\partial w_1} = \frac{\partial L}{\partial z_1} \cdot \frac{\partial z_1}{\partial w_1} = \frac{\partial L}{\partial z_1} \cdot \frac{\partial z_2}{\partial z_1} \cdot \frac{\partial z_1}{\partial z_2} \cdot \frac{\partial z_2}{\partial z_1} = \frac{\partial L}{\partial z_1} \cdot \frac{\partial z_2}{\partial z_2} \cdot \frac{\partial z_2}{\partial z_1} \cdot \frac{\partial z_2}{\partial z_2} \cdot$$