

input variables; (x, x2, x3, x4) = (0.7, 1.2, 1.1, 2) weight; (w, , w2, w3, w4, w5, w6) = (-1.7, 0.1, -0.6, -1.8, -) (A7760) = -0.2,0.5)

Loss L2, & L(y, G) =
$$||\hat{y} - y||^2$$

 $\frac{3L}{3g} = 2||\hat{y} - y||$
Output $\hat{y} = 0.5$

Forward propos Vanables

$$5_{1} = \chi_{1} \omega_{1} + \chi_{2} \omega_{2}$$

$$= (0.7)(-1.7) + (1.2)(0.1).$$

$$= -1.19 + 0.12$$

$$= -1.07 \longrightarrow 0$$

$$5_{1} = -107 \longrightarrow 0$$

$$5_{2} = \chi_{3} \omega_{3} + \chi_{4} \omega_{4}.$$

$$= (1.1)(-0.6) + (-1.8)(2)$$

$$\boxed{S_2 = -4.26} \longrightarrow \boxed{2}$$

CO.K.E., Transfer Punchion
$$h_1 = \frac{1}{14 e^{-2\pi i \omega_1 + m_2 \omega_2}}$$
.

 $h_1 = \frac{1}{14 e^{-(5\pi)}}$
 $= \frac{1}{14 e^{-(5\pi)}}$
 $=$

$$\frac{\partial S}{\partial S_{3}} = S(1-S) =$$

<u> 3</u> = - 0.000 14.