

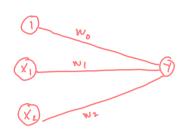
Neural Networks

Linear mode

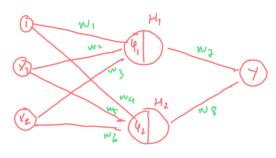
assume that

(Algebraic presentation of Unear model)

1 Graphical presentation of linear model.



Input layer adjut layer



$$\begin{cases} H_{1} = \left(1 \cdot w_{1} + X_{1} \cdot w_{2} + X_{2} \cdot w_{3}\right)^{2} \\ H_{2} = \cos\left(1 \cdot w_{4} + X_{1} \cdot w_{5} + X_{2} \cdot w_{4}\right) \\ Y = w_{3} \cdot H_{1} + w_{8} \cdot H_{2} \end{cases}$$

4, 42: activation furetions

$$\ell_1(t) = t^2$$

$$\Psi_2(t) = \cos(t)$$