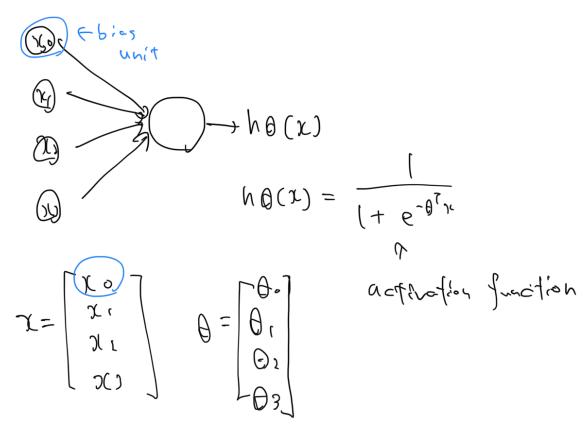


Non-linear Hypotheses.

we need von linear typ-thesis for medica (equip pidlem.

Neura Model : Logistic Unit





layer 1 layer 1 (azer 3)
Input Layer hidden (ager out put layer

 $\alpha_{(1)}^{(1)} = \beta(\Theta_{(1)}^{(1)} x_0 + \Theta_{(1)}^{(1)} x_1 + \Theta_{(1)}^{(1)} x_2 + \Theta_{(1)}^{(1)} x_3)$   $\alpha_{(1)}^{(1)} = \beta(\Theta_{(1)}^{(1)} x_0 + \Theta_{(1)}^{(1)} x_1 + \Theta_{(1)}^{(1)} x_1 + \Theta_{(1)}^{(1)} x_2 + \Theta_{(1)}^{(1)} x_3)$   $\alpha_{(1)}^{(1)} = \beta(\Theta_{(1)}^{(1)} x_0 + \Theta_{(1)}^{(1)} x_1 + \Theta_{(1)}^{(1)} x_1 + \Theta_{(1)}^{(1)} x_2 + \Theta_{(1)}^{(1)} x_3)$ 

$$+ \theta_{(5)}^{h} \sigma_{(5)}^{2} + \theta_{(7)}^{11} \sigma_{(7)}^{1} + \theta_{(5)}^{12} \sigma_{(5)}^{5}$$

$$+ \theta_{(5)}^{h} \sigma_{(5)}^{2} + \theta_{(7)}^{11} \sigma_{(7)}^{1} + \theta_{(5)}^{12} \sigma_{(5)}^{5}$$

if network has Sjunits in layerj, Sj+1 units in layer j+1, then O') will be at dimension:

Mult: Class classification

-- (-04)

