WEEK-4 Hen n is very big timear & logistic regression models cannot be used.

- We use neural networks. Xo node les called bias unit, its value is = Jerns ai = activation of (unit) i in layer (x) = matrix of weights controlling function malphing from layer job (j+1)

(x) = g(z_1^2) (x) (a) (2) $h_{\theta}(x)$ $a_{1}^{(2)} = g\left(\frac{a_{3}^{(2)}}{a_{1}^{(2)}}\right) \qquad a_{0}^{(2)} = 1$ $a_{1}^{(2)} = g\left(\frac{a_{1}^{(2)}}{a_{1}^{(2)}}\right) \qquad a_{1}^{(2)} = 1$ $\alpha_{2}^{(2)} = g\left(\theta_{20}^{(1)}\chi_{0} + \theta_{21}^{(1)}\chi_{1} + \theta_{22}^{(1)}\chi_{2} + \theta_{23}^{(1)}\chi_{3}\right)g^{2}$ $\alpha_3^{(2)} = g(\theta_{30}^{(1)} \chi_0 + \theta_{31}^{(1)} \chi_1 + \theta_{32}^{(1)} \chi_2 + \theta_{33}^{(1)} \chi_3) = g(\theta_{30}^{(1)} \chi_0 + \theta_{31}^{(1)} \chi_1 + \theta_{32}^{(1)} \chi_2 + \theta_{33}^{(1)} \chi_3)$ ho(x)= q(3)=g(0) a(2) + (1) a(1) + (2) a(2) + (1) a(3)





