Week4

Neural Networks model represents

a(j)i="activation" of unit i in layer j

Θ(j)=matrix of weights controlling function mapping from layer j to layer j+1

layer 1 has 2 input nodes and layer2 has 4 activation nodes.

Θ(2) is going to be 4\*3

g(z) = 1/1+e^-z

z= thetaT(行)\*x(列)

a(2)1=g(Θ(1)10x0+Θ(1)11x1+Θ(1)12x2+Θ(1)13x3)

a(2)2=g(Θ(1)20x0+Θ(1)21x1+Θ(1)22x2+Θ(1)23x3)

a(2)3=g(Θ(1)30x0+Θ(1)31x1+Θ(1)32x2+Θ(1)33x3)

hΘ(x)=a(3)1=g(Θ(2)10a(2)0+Θ(2)11a(2)1+Θ(2)12a(2)2+Θ(2)13a(2)3)

A picture containing standing, door, group, sheep

Description automatically generated