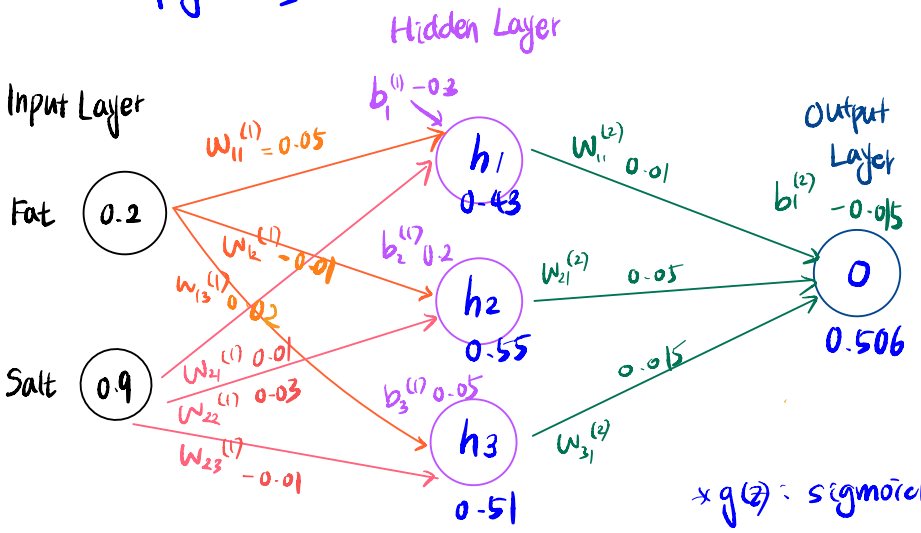
[Forward Propagation]



* $g(z)$: sigmoid $= \frac{1}{1+e^{-z}}$

$h_1 = g(z1)$

$z1$: $0.2(0.05) + 0.9(0.01) - 0.3 = -0.281$

$g(z1) = 0.43$

$h_2 = g(z2)$

$z2$: $(0.2)(-0.01) + (0.9)(0.03) + 0.2 = 0.225$

$g(z2) = 0.556$

$h_3 = g(z3)$

$z3$: $(0.2)(0.02) + (0.9)(-0.01) + 0.05 = 0.045$

$g(z3) = 0.51$

$O = g(z4)$

$z4$: $(0.43)(0.01) + (0.55)(0.05) + (0.51)(0.015) - 0.015 = 0.02$

$g(z4) = 0.506$