Vectorized form: -> We'll basically need to stack together the computed z, a values. Z = | ZEDGD | ZEDGD | ZEDDGD) Ŷ = g(Z[4]) = A[4] Z[1] = W [1] A[1-1] +b[1] 4 [1] = 9 [1] (Z[1]) -need for loop to compute activations for layer 1, 2, 3 -- n for l=1--.4: Z, Calculation needed. Note on dimentions: thelpful to write the dime on paper before implemen tothon. $w^{E+1}:(5,3)$ (n^{E^2},n^{E+1}) [h [1] [n [1] (n 1) Similarly, (E3): (4,5) (A): (2,4) $Z^{[2]} = w^{[2]} \cdot a^{[1]} + b^{[2]}$ (5,1) (5,3) (3,1) (5,1)(1,2) Generic form: (n [1-1]) - dw has same dins db has same dins $\rho_{\text{rij}}: (v, i)$ $Z^{[i]}$, $A^{[i]}$. $(N^{[i]})$ 121 da ham sam dins