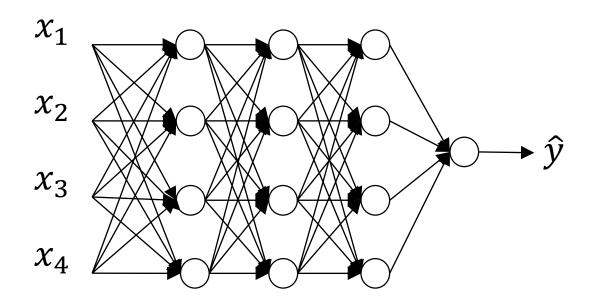


Regularizing your neural network

Dropout regularization

Dropout regularization





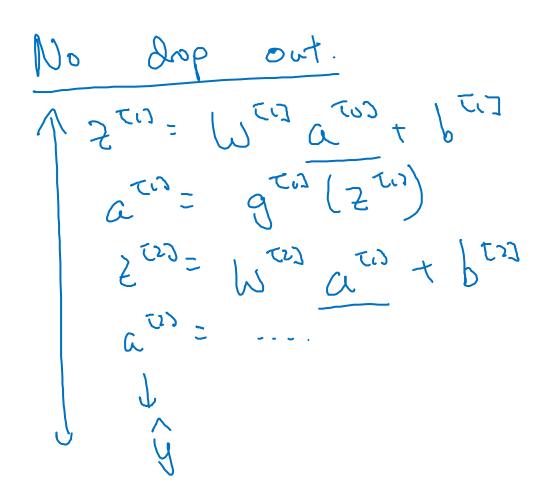
Implementing dropout ("Inverted dropout")

Illustre with lagur
$$l=3$$
. teep-prob= 0.8
 $3 = np$. random. rand (a3. shape $[0.3]$, a3. shape $[0.3]$) < teep-prob

 $3 = np$. multiply (a1, d3) # a3 * = d3.

 $1 = \frac{1}{2} = \frac{1}{2}$

Making predictions at test time



/= keap-pas



Regularizing your neural network

Understanding dropout

Why does drop-out work?

Intuition: Can't rely on any one feature, so have to spread out weights. Shrink weights.

