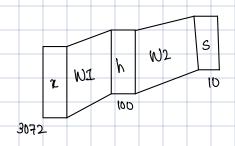


Nueval Networks:

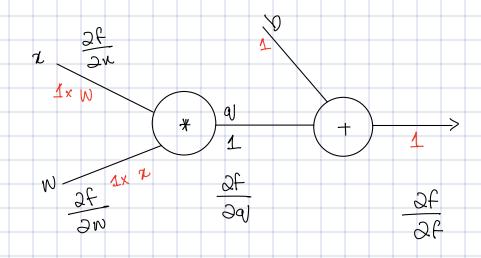
(Before) Linear Score function: f=Wir

(Now) 2-layer NN: J= W2max (0, W1x)



· Simpler function stacked on top of each other in hierarchical way with a non-linear in between

Homework helper:



$$\frac{\partial Q}{\partial y} = W$$

$$\frac{\partial q}{\partial w} = \chi$$

$$\frac{2f}{2z} = \frac{2f}{2q} \times \frac{2q}{2x}$$
$$= 1 \times W$$

$$\frac{2f}{2w} = \frac{2f}{2q} \times \frac{2q}{2w}$$

$$J(w,b) = -\frac{1}{m} \left\{ \sum_{i=1}^{m} \frac{1}{j} \frac{1}{2} y^{(i)} = -\frac{1}{2} \log \frac{e^{2}}{2} \frac{1}{e^{2}} \right\}$$

$$\frac{25}{2z^{5}} = \frac{1}{2z^{5}} - \log\left(\frac{2}{z} + \frac{2}{z}\right)$$

$$= 1 - \frac{e^{2j}}{2}$$

$$= \underbrace{\left(1 - a\right)}_{-N}$$

$$= \underbrace{\alpha - 1}_{N}$$

$$\frac{\partial J}{\partial z_j^2} = \left(\frac{Q-1}{N}\right)$$

SVM loss:

$$L(W) = \bigcup_{i=1}^{N} \max_{i=1}^{N} (0, s_i^2 - s_i + 1)$$

if margin
$$>0$$
;
$$\frac{2L}{25} = \frac{1}{1=1}$$

$$J = U^{2}$$

$$2/$$

$$2/$$

$$3'$$

$$J == U_1^2$$

$$\frac{2L}{2Sy_1} = \frac{5}{1=1} - 1$$