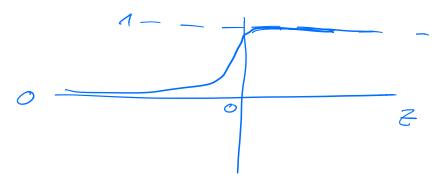
Lecture october 8

FFNN



Rectified Linear Unit (REU)

f(z) = max(o, z)
output values only for z >0,
that are different for zero.

Leaky RELK

 $f(\xi_i, \alpha_i) = \max(0, \xi_i) + \alpha_i^* \min(0, \xi_i)$ $\alpha_i \sim 0.01$

FLL

$$f(z) = \begin{cases} xe - 1 & z < 0 \\ z & z > 0 \end{cases}$$

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actingtion functions + Cast.

Cross - Binary classification: 5(x)
entique = More classer: Softmax

- Regression; MSE at T(2) 95 activation. 1/2 E (91-ti)2 architecture: - # hidden bager (Depth) # modes en each lager. Regularization parameters - Ridge: add to cast function WW _ Lasso ; \\ \lul, 56D: epoch, learing, mini-batcher _ standard - Momen tum SGD - Adagraa - RMS prop _ Adam $a_{1} = \int_{0}^{4} \left(w_{x}^{2} + f^{2} \right)$

$$Q_{n} = \int_{c^{2}}^{c^{2}} \left(w^{2} a^{(0)} + b^{(0)} \right)$$

$$= \int_{c^{2}}^{c^{2}} \left(w^{2} y^{(0)} w^{2} + b^{(0)} \right) + b^{(0)}$$

$$= \int_{c^{2}}^{c^{2}} \left(w^{2} y^{(0)} w^{2} + b^{(0)} \right) + b^{(0)}$$

$$= \int_{c^{2}}^{c^{2}} \left(w^{(0)} a^{(0)} + b^{(0)} \right)$$

$$= \int_{c^{2}}^{c^{2}} \left(w^{(0)} a^{(0)} + b^{(0)} a^{(0)} + b^{(0)} a^{(0)} \right)$$

$$= \int_{c^{2}}^{c^{2}} \left(w^{(0)} a^{(0)} + b^{(0)} a^{(0)} + b$$

