

NETWORK ARCHITECTURE weights: $W = \begin{bmatrix} W_1 & W_{12} \\ W_2 & W_{22} \\ W_3 & W_{32} \end{bmatrix}_{3\times 2}$ lostpot/ 1 Lidden 1 input -> hidden : @ hidden - output : 1. Loss: MSE Z = Wz + 6 (1) $\vec{0} = M\vec{h} + \vec{b}^{(2)}$ L = MSE(J. o) L = 1 2 (y, -0.)2 where : when:
M & R2 ×3 WER3x2 I E RIKI LERIXI @ mgoli-izition: 6 (1) E R 2x1 5" E R 3x1 SER2XI 5 = \frac{\lambda}{2} \left(5, + 5_2 \right) activation : Relu regularization: when: L= RLU(Z) 52 = 1 M 11 2 h & R3x1 52 € TR 6. objection function: regularization:) = L + s 5, = || W||_F = 5, ER when: JER

Py Royak/

