

layer is linear combination of input longers tectified linear unit tanh ReLUCID 2 if x >0 Z[2] = W = 2] A [2] + b [2] ... (iV) ad: 10 => 10xm A [2] = softmax (Z [2]) ...(V). Each of the 10 nodes correspond to each of the 10 digits that could be recognized need a probability sof trox output activation, laget 0-2 5.1 0005 0.01 0.7 0.02

Spack word propagetion3. on (17) one not encode .dz[2] = A[2] - Y 10xm 10xm 10xm. dW[2] = 1 dZ[2] A [1] T lorm mx10. loxlo -1 2 95 (2) 20X1 27[] = W[2] T dz[2] \* g'(Z[]) 10xm Joxn jox 10 loxm =: d W[2] = 1 d Z [2] XT 10×784. orm mx784 d b [2] = 1 2 dz(2J. 10×1 W [2] = W[1] - ad w [2] a = learning Tate: P (2) = P(2) - ×9P(5) W[2] = W(2) - Qdw[2). b(2) = b(2) - adb(2)

