3. Initialisation 3.1. 2-layer NN (WE1] (ED, WE2), 6[2]) 3.2. L-layer NN. -rong. roundon. vanda (layer dins [l.], layer dins [l-1]) .-- 2 mp zeros (Clayer dins[b], 1) Does (C)) give the cha It's parsed to the fund as a single argument 4.1. Linear forward Z = W A ElJ (CA [0] = X)

4.2. Linear - Activation Forward Signaid, Rell A, activation cache = sigmoid (2) A, activation_cache = volu (2) A = 9 (2 [6]) - 9 (WELJAEL-1) + (B) 4.3. L-layer Model Function that reglicates the nevious one Clinear activation formand w/ REW) L-1 times, then follows Now we've got for grop. whimputy X, output A ; using A [L] we can a cost 5. Cost function Implement for & boutgroup.

J=1\(\sum_{\text{g}}(\text{g}(i)\log(a\text{LiJCi}))+(1-yci)\log(1-a\text{LiJCi}))\) Note: m. multiply: multiply arguments element-voise

6. Backsprop. module Calc gradient of lass fine wet params. · LINEAR -> ACTIVATION backword · [LINEAR->PELU] × (1-1) -> LINEAR -> SIGMOID backward (whole model) 6.1. Linear ballward dwell = OL 1 1 Z FLIA [L-1]T Diff. betw. vp. dot & y. wultigly? db [1] = 2L = 1 \ 2 dZ [[](i) JACL-1] OL WELT JZ ELJ shape of an array 6.2. Liveour-activation bachward Merge liveour bachward & livear attraction · dZ = sigmoid backward (dA, activation_cache)

· dZ = velu-backward CdA, activation_cache)

dZ = dA Clix (ZEL)