Forward prop = using existing u, b meticles be each layer 2. Backward prop > update up to materies for each layer based on current up to valver and the stipulated loss function ??? 3. Repeat | Functions: train_nn-multiclas (x, y, layer-list, bactured - peop - multiclast (X, y, W, B, a): formel-prop-muticless (X, W, B): A Generate Will a prepopulate # we chun here to execuse boxpap and update will for each logar necessary H therate formers plan, buckprop update # wre a Whaten Fundicor (ReLn) for i in tame (epochs) I # update based on loss timesten # Reton activation (:st (a) H Return W, B 1 H Reman W, B NN Structure Pate Structures: X: Numby atty, enatorix, mxn y: Numpt along, matrix, mx1 W: Rython 1: St of Numby arrays (matters), A constant to that layer A: Rython list of NumPy nerrys (mitteds), the corresponds to the of layer layer list. After list of ints, depending the Hot united layer Mx n: m training examples, n features a: Pythen list of North creats W 1 x 2: n willty Runits

Truining Algorithmi Ernal Prop. Algorithm: ReLu (4 E13 = Max (0) 3 E13 251) = (1+ ACI) 1st Layed ~ K 15 (A E 27 = Max (9 2 5 2 3) Zod E120 10 = 6 ELJ = (EL-1] = (EL+1] . "EL+1] = FLJ = MELJ Backprop. Algorithm: Categorical Cross-entropy loss 20thank $\frac{\partial \mathcal{L}_{\text{ENJ}}}{\partial \mathcal{L}} = \frac{\omega}{1} \left(\frac{1}{2} \left(\frac{$ FIMX10 EXPO.