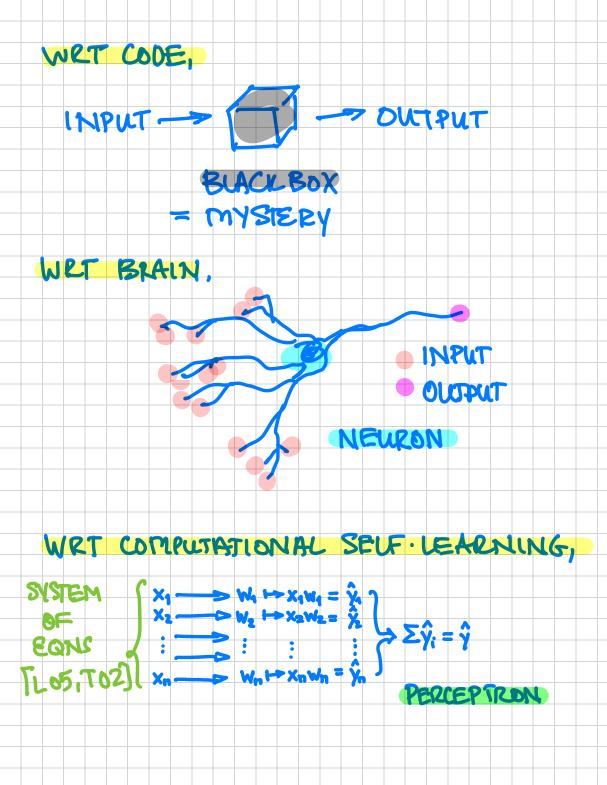
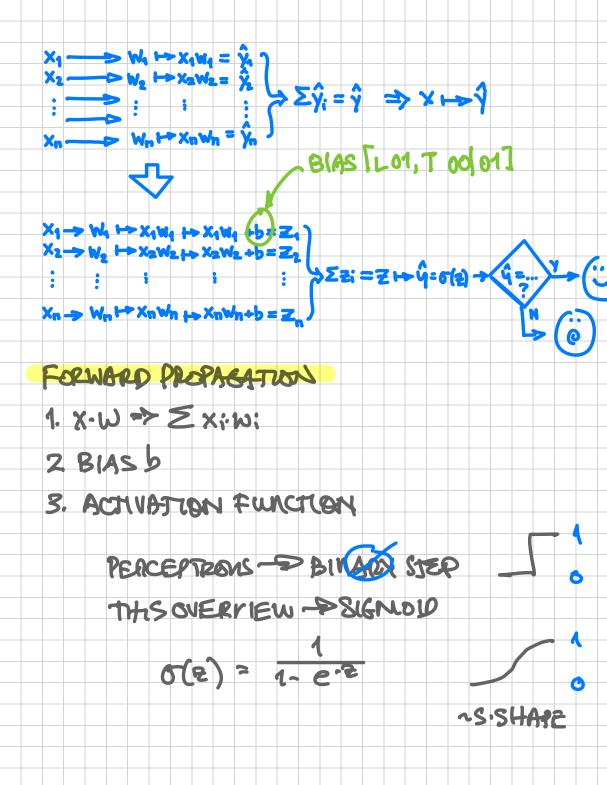
PERCEPTRONS, QUICKLY

NM1 2401 SL#3 KSA

NEWLAL NETWORKS PERCEPTRON ~ BASIC BUILDING BLACK FRANK ROSENBLATI · PSYCHOLOGIST · STUDIED COGNITIVE SISTEMS OTHERS BEFORE HIM THOUGHT THROUGH LEARNING ALGORITHME, BUT ... HE WROTE A COMPUTER PROGRAM THAT LEARNED TO CLASSIPY IMAGES. IN 1958.





LEARNING X1 -> W1 -> X1W1 +> X1W1 +> = Z1) X2-> W2 -> X2W2+ X2W2+ b= Z2 > Σ Z = Z + Ý = σ(2) Xn -> Wn + Xn Wn + Xn Wn+b = Z ADJUST Wi, b 1. BACK-PROPAGATION - BACKWARD PROPAGATION. ~ [L2, T00|02] -> BACKWHEDEREDR: A OUCTPUT -> EXPECTED A INPUT -> EPROR: SE = (Ŷ:-Y:)2=> MSE = # 5(Ŷ:-Y:)2=C -> C - CIST FUNCTION - LOSS FUNCTION 2. OPPIMIZATION ~ FIND BEST With. - USE GRADIENT DESCENT? [LOG, TOZ LOS] ac ac ac as conjugate shadente => 2C = 2 1 2 (4:-4:)2= 2.4 2 (4:-4:) = 2 Sum (4:-4:) 29 = 2 0(2) = 2 (1-e-2) = c-2 110-2 12 6-2 116-5 (1 - 116-5) - 0(2) (1-0(2) 2z = 2 (2) = 2 (2) = X;