MACHENE LEARNING BLOINFORMATICS.

Home Assignment 1.

1. Given,

8 = (8xh) + (0x0) + (1x1-) =

WTX1 = X0W0 + X, W, + X2W2 (8) N8/2 =

modes of

Perception updated ville is W-new = W-010 + 4 4 x ×3 2 W-news [0,6,6] + (-1) * [1,0,2] (000) 2 [0,6,6] T-[1,0,2] , (cest) = " initial to = [0,6,6] repeat steps. WTX3 = [-1,6,4] T # [1,0,2] TICK = (-1x1)+ (6x0)+(4x8) = 8 = sign(8) + 101 + 101 x + 0000x = 10 = update was workin(0x0) + (0x8) + (0x1) (NT ×3 = [-1,6,4] + 1# -1 + [1,0,2] = [-1,6,4] TC_[1,0,2] + scient = eater 20 (572,6,2) 7 (0xp) + (0x1) (new w = (+12,6,2) Tm) 1+ = (45) 18 (

update was new = W

$$= [-2, 6, 2]^{T} + 1 + -1 + [1,0,2]^{T}$$

$$= [-2, 6, 2]^{T} - [1, 0, 2]^{T}$$

$$= [-3, 6, 0]^{T}$$

$$now w = [-3, 6, 0]^{T}$$

$$= (-3, 6, 0]^{T} + [1,0,2]^{T}$$

$$= (-3, 6, 0]^{T} + (6,0) + (0,0)^{T}$$

$$= (-3, 6, 0)^{T} + (6,0)^{T} + (6,0)^{T}$$

Final w = f = 3, 6, 0 (1x1) + (1x1) + (1x1) + (1x1)