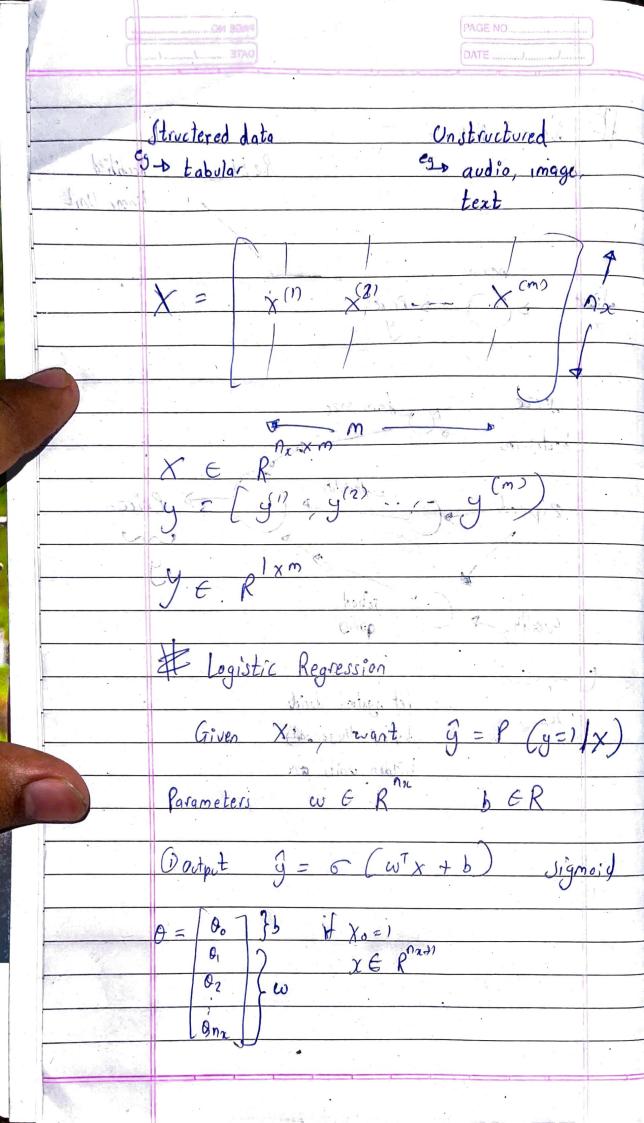
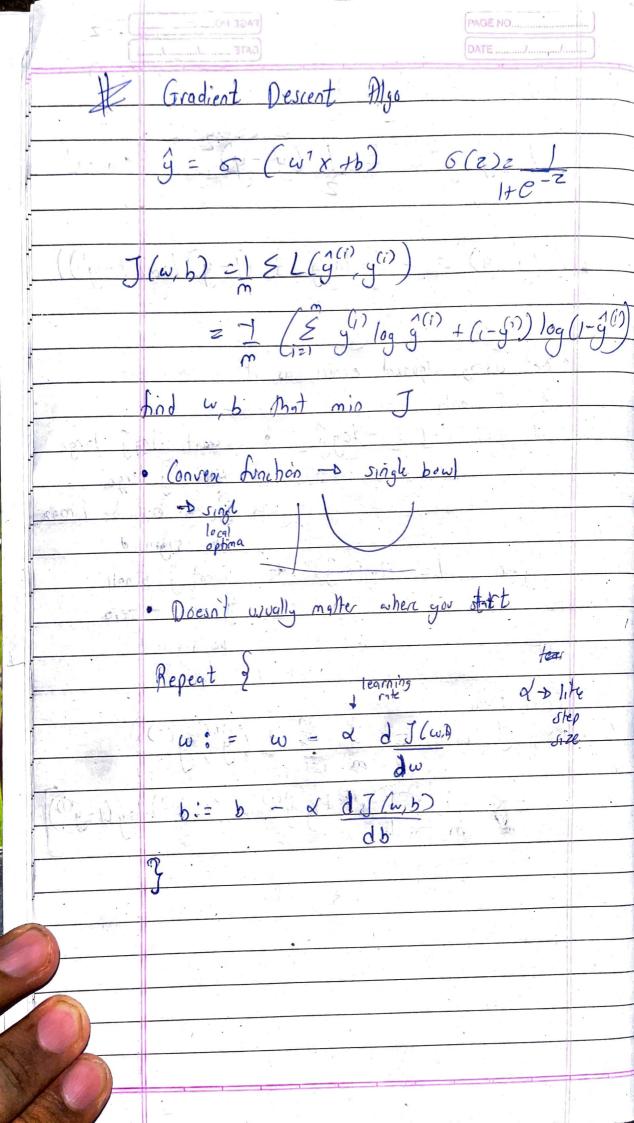
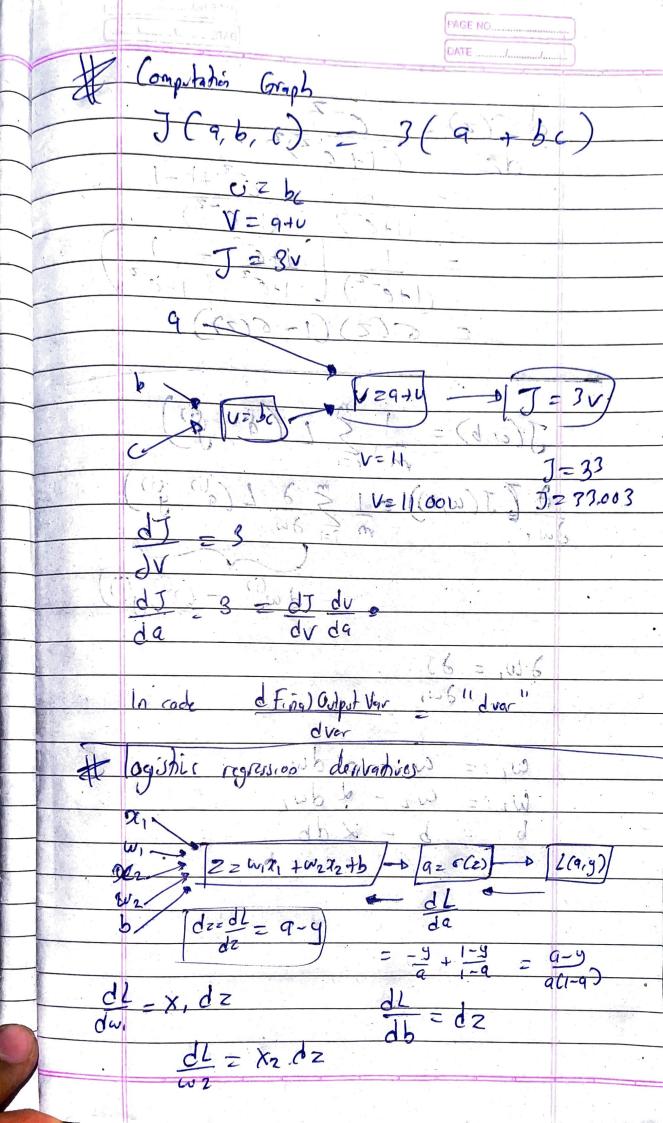
PAGE NO..... DATE Neural Network Rell Recipied linear Unit D. Price fam size ualkability School diling let system decide constever there and hidden unit are



PAGE ICZ -Z logistic error function 9= 6(w1x+5) $L(\hat{g}, y) = L(\hat{g} - y)^2 \quad (concept)$ 2 (g,g) = - (g logg + (1-g) log (1-g)) · not using squared errors as it will minimize to 0 only · it y=1 1= -logy - vant logy large g can boly be 1 max be sigmoid (ost Func J(w,b) = 1 = 1 (g(r) + g(r)) m [21 = -1 \$ [y(i) log y(i) + (1-g(i)) log (1-g(i))

m = [21]





3.003 us dwi 2 W, = 97 Jw, 50

ever Rnxxm Vectorization. vect non vect 2 = np. dot (a, x) +b for in vage 2 tz wilx xti) 2+=6 better a bill in Loc

Z = [Z11 Z22 - Zm] (+ [b, b, b, ~b) 2= np. dot (w.7, X) + b Broadcastins botto a both $\frac{dZ = A - Y}{= [q' - q'] \cdot q^2 - q^2}$ $db = 1 \leq dz^{(i)}$ db= 1 np. som (dZ) dw = 1 X.dz7

		PAGE NO
1		DATEdamad
-	Broadcashis	
		!
		~ (m,n)
		~B (17,17)
	mghire x	
	(m, l)	$\sim D(M, n)$
*		
	$(m \ l)$	
	(m /) + R =	[0]
	2	(03)
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(9)	Port use Ranh larray	
a w 1 Sayles	ice when	3
	9. Shape = (5)	
7		
#	logishe Reg cost finishe	>
47		
	$g = 1$ $p(y x) = \hat{y}$ y = 0 $p(y x) = 1 - 6$	
	y20 p(g/x) = 1-8	
	$p(y x) = \hat{y}, (1-\hat{y})^{(1-\hat{y})}$	
1	log (P(g/x)) = -1 (g	y +