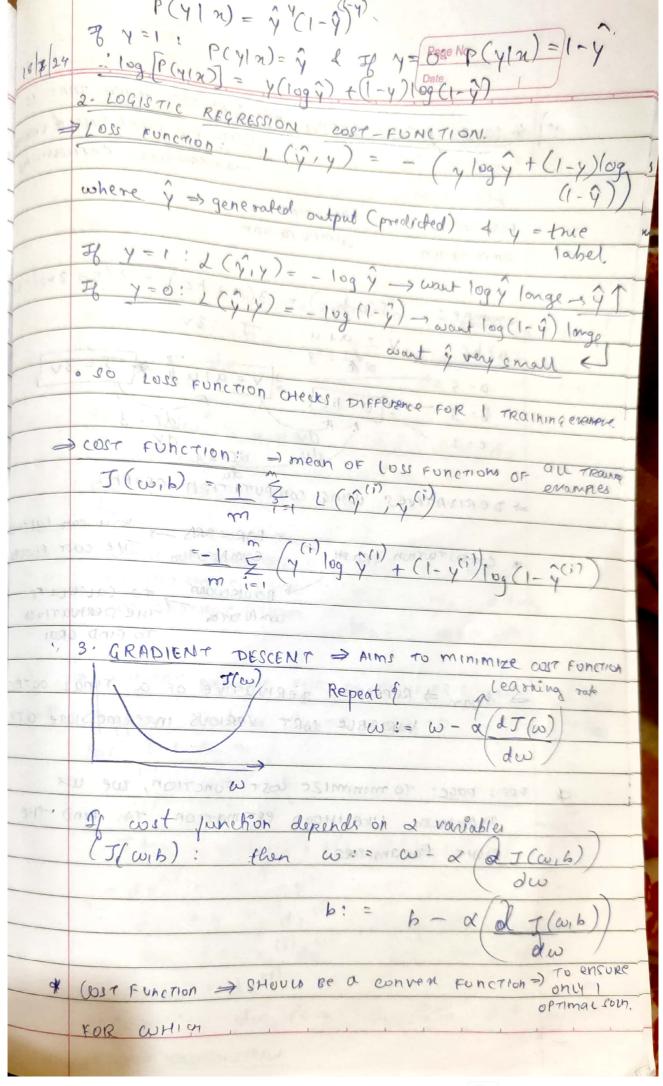
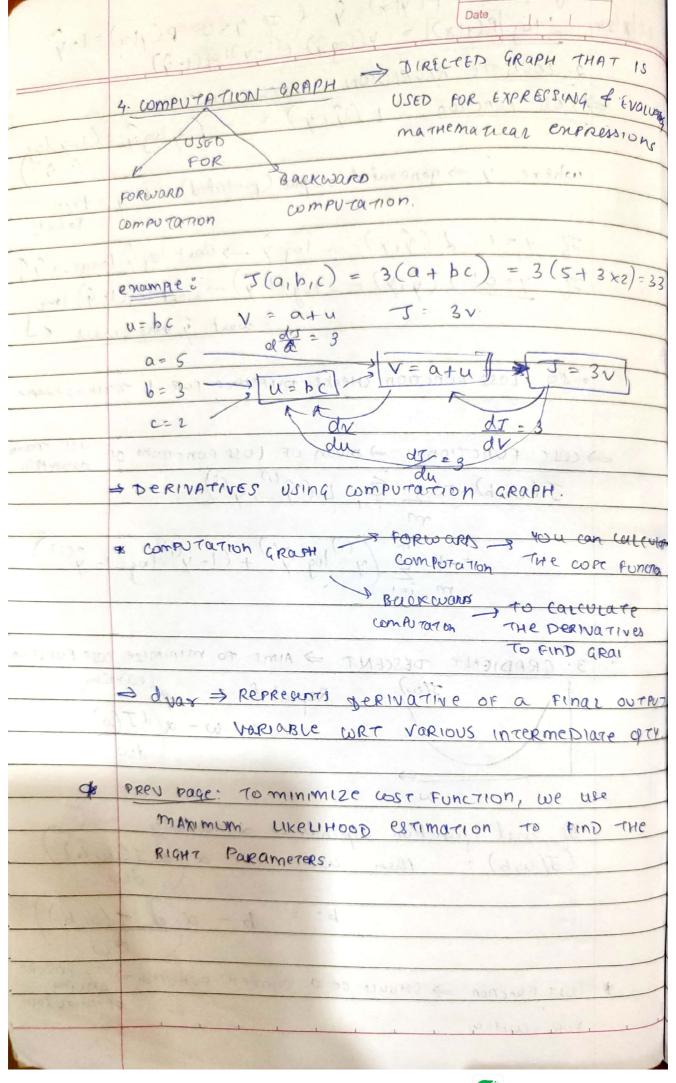
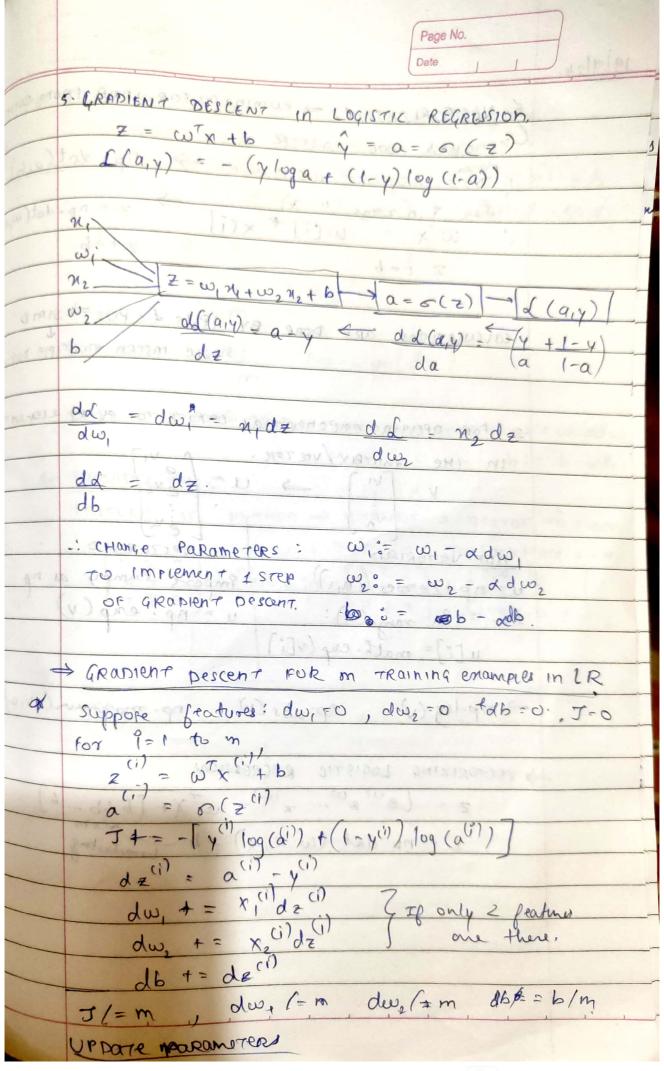
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17-9-24	Date
T)	BASICS OF MEURAL METWORK
	1. LOGISTIC REGRESSION -> ALGORITHM FOR BINARY
2,814	image rearing: an image has 3 channers RBG.
101	an mxn pixel image will be reap as
	3 matrices each of size mxn.
	in mor veer reature vector will have a
C194U 883	rimension of mxn x 3. = 1
02.1	NOTOTORY VEGTER
4.61.61	(2)
OF FACE ENGLES	MOTATION: (x,y) => IMPUT => x E IR MOTOR TRAINING OF
	m - no. of training enampres
	m træn = træning enamples m _{test} = testing enamples
	$\chi = \chi' \chi^2 \chi^3 - \chi_m \eta \chi \qquad \gamma = \gamma' \gamma^2 \gamma^3 \gamma_m$
	t m
	Xoshape = (nx,m) Yoshape = (1,m)
	* 2091s Tie Regression - uses 919moip Function
	Have a PROBABILITY OUTPUT COLUMN
	$OUTPUT(\hat{y}) = \sigma(\omega^T X + b)$
	WHERE & (SIGMOID) 35 & (3) = 1
	1+e-2
	> Here, Wo is an nx pimensional vector
	4 b is a real number







	Dago Mr.
l . t	Page No. Date
19 7 24	
	5. VECTORIZATION -> eliminates for LOOP PROM CO
	TORES COOR PAINTER
	for \$ in some (n-2)
	The state of the s
	· wy = wei] * x[i] = = npodot(
1.	Z+=b.
111	15 3 2 - 0 K - d + K - 0 K / W - 5 K
V-1+	calculations are Done By GPUS & CPUS => SIMD
D-1	Sincia Tros Simp
	Single morriple Do
	2. FOR appying ampana
	2. FOR appening emponential operation to every evene in the matrix/vector.
	Va [VI]
-	V _n = e ^v ₂
	THE CHITORISED
	enprzeroes ((n,1)) import numpy as no
	for 9 in range (n): $u = np \cdot enp(v)$
3 J 41	math enp (VII)
7	
,	- mp. log (v) np. abs (v) np. marimum (vy
	2 VERMOLENIA
	> VECTORIZING LOGISTIC RECRESSION:
	$Z = \begin{bmatrix} z & y \\ z & z \end{bmatrix} = \begin{bmatrix} z & y \\ z & z \end{bmatrix} = \begin{bmatrix} z & y \\ z & z \end{bmatrix}$
	Z = np. dat (w. T, x) + b six brandasting.
	broodas
	CO SO Y = + COL
	Police x strop
	(i) ah at al
	The me substitute of a substitute of the substit

