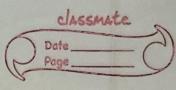


Linear Regression Algorithm 1 Tupot: Dotaset with one indo pendent variable (x)
and one dependent variable (y) 2 Initialize: cettrials (m) to mislope 10 = intercept. eleper (b) 3. Trains for each iteration calculate psedicted valve: y=mx +b
calculate cosos valve: mx+b-y (Psedicted vale) uple coefficients. M=mxx. 1 & (error ex) b=b+4. 1 & (08+00) Docardo code tiretion LR (x, y, appla, itorations): Initalize m=0, b=0 n=length(x) too i from 1 to iterations: y-pretom* X +b Brox 21-4- Pred m= m+ alpha + (1/n) *Sum(estor * X) b = b+olpha & (1/4) & som (exxa) setum mip.

Date Page Multiple Legression Algosithm A dataset with multiple independent variety (2, x2, -- , xn) and one dependent variety 2. Initialise! set coffecients (bu, b, b) to 0 3. Traing: tox each iterature. calculate the poedicted value (bo + h, X, + h, * tet bux) colorlet esson = y-9 updite fue coefficients: for each (j) from o to (n). bj = bi + d. 1 {(exxox. x; Pseudo coll function MR (x, y, alpha, iteratione) Osc. Initialize 5= [0,0---0] for; from 1 to iterations: 4-psed=b[0] + Som(b[j] * X[j] loo; in 1 ton) for j trom o to n: bGJ- bGj + alpera - [Mm gun (error 1 5;)



	Logistic Rogoessiona
	SELLE HEMING! IN E OF
t	Initialize:
	Initialization Small sondon valvas to zeros.
	AND THE PROPERTY OF THE PROPER
2.	Comple tre weighted sum:
	2= wx, +w2x2 + wnkn +4
The state of the s	apply two sigmoid function:
	6 (z) - 1 1+e-z
	1+0-
1.	c- ple 1. loce
1 1	(omport the 105)
ba Xu)	Complet fu loss Loss = - 1 & [4; loy(4;) + (1-9;) loy(1-4)
	uple weights.
	2608
	$w = w - \alpha \frac{\partial Loss}{\partial w}$
	b= b- a Dloss
6	decode decode.
Pso	tox ites an sound (nom- Et acci).
	z = w+ x + b
7	g-prod= sigmoid (2) loss = - maan (y + log (g pred)
n 1 ton)	
	go outrets:
	db = man (g-pred -y)
)	CP 5 War (2- 1-2)

