Linear Regranian

Alle dependent variable and one on more independent parties by failing a linear equation with object ved data.

It predicts the continuous decipent variably based on the independent input variable.

To find your continuous of the event blue predicted values I and actual values.

Algorithm from linear Regression.

Green a delaset with a sample, each having an speed of and output y

y - Bo B 7 + E shat minimize the every E

Jordalize Parameters:

Stard with rondom value for Bo and B. (sky)

Mypothers Function:

Dingle Beature: 9; - B + B. X.;

Multiple Reature: 9 - B + XB

Calculate mean aquand lerrors

MSF-1 5 (9; - Y;)2

Make Prediction Use trained model - g - Box B, x do predict centput Value for now now4

y: -> predicted values

	papergrid Date:	
2	Application	
	Markoling and Advertising	Represent
	Bueney and Economics	an
	General Science	
	Sporte Analyting	10
		1 19
	Randocade	- 1 3
	Function Lorean Reguerion (x,y):	y.
	Saffi Add Column of ones to 10 feer	
	The ordered sun	uehi
	X = Add Column of Ones (x)	The
	Step 2: Compute the weekficents wing	be
	OLE parmula	pres
	bete = (XATXX)1 = (XX1 xy	
	* transpare - Itanipar (x)	Log
	XIX - Mulliply (X transpare X)	100
	X 1 1 - 1 horder - 10 carried X TX	Qu'e
	XT Y ? Multiply (x sergo, sour V)	
	- Lucapa A 1 (1 mil 100 min )	
	Coffee Cony	or
	Retion beta	le:
		and f
	Multitinean Regression	
	medicy more from one independent variable	
	uso are dependent variable.	
	y: Po + B, Y; + Bo X, + Bo X	
	y's dependent variable.	
	Y x2 x are ondependent variably	(
	Bo 5 intercept	
	BI, Bo Ba are the slopes	
		4
	Int dotopoints belv. ~ ~	2
	Let detepoints be (x, x, x, x, y, y, ) +i(0, m) where xixiE(0,0)	