## Accignment to the ship by these present thank from a sund in lagarite regression models

tegrite Abylinians in a generalized tratade and for taking clanification, where the deport in reminde to categorical and elypically has been actioned.

is o or to, true or False, below of the eter to step process used in logistic regression

## Logistic Regression Assumptions:

- · Binory turget: The dependent väble should be
- · Irdependent of observations: Observations should be independent of each other.
  - Initializa D to each coefficient i.e. the

## 2) Logatic Function (Sigmord Function)

f = 1+ed where y=bo+b1x1+b2227 70000

The function outph a value between o g 1, which reprosed the probability of the eved occuries les

of probability 60.5, the producted classist of probability 60.5, the producted classis 0

Delacted Education & Tradestyle

A text to legaleting at the legality of the event is a linear combination of probabilities by -odd = log (P) = bo+b, 1, + bi2+ ... + bonn where p' is the probabilit of do ever, and bo, bi, be... by are coefficiet to be eliminated.

(e) Usiz (o-efficiat new Valus in calculation weight :-Wnow = Wad + d ( 7-+) (1-+)+ x, where d = deorning rate t = threshold furtion

5) Linour Combinion of weighted sin Each inpt fecture rector x= [21, x2...27] Compte to linear regrenor uso to bela formly.

X= wot wix, + wixed + ... + warn

c) Ropeto the sigmoid proces to do ment time combition paped in & , I, (a) Repar for muliple uplado. " The proces of comba to rompay

Lim Combinder, applyin agreed funding

cakada tu less à apoleta the meigh is repoleta the meigh is each epole the meight become restrict out the Cost greetantly checkens,

Datast given below his too hop variable (y) Apple (at \$ 20) and one outpet variable (y) Apple lighte regressor model to mobe production after to epoch for each day poor, we only a to lear rate.

Inpit		Actu outpt
X,	X 2	y
2. 791 OE3(	2.55053	0
8-67541	_0.2420	

epah - 01.

x = bo + b, 21 + b2 x2 or x = wo + w, 21 + w, 31

$$w_{1}(\alpha_{10}) = 0 + 0 + 0 + 0 + (1 + 0 + 1) + (1 + 0 + 1$$

==0 . 4 H 4 H

= -0.0625 4 (-0.5929 = 8.64 5118651) + (00151 = 0.29200) = -4.4699

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GM1-3
4 = =4. 7884
WA = = 0.06 BF
12 6 5 6 0 E 4 25
W4 = 0.0151
   t = \frac{1}{1+e^{-1}} = \frac{1}{1+e^{-(-4.7699)}} = 0.0084
 Com = -0.0625 + 0.5 a 0.0089 (-4.769-0.0084)
                       ( 1-0.00Fq) x)
          = -0.0629
WI (ne=) = -0.5 $22 + 0.5 * 0.0084 (-4.7 699 - 0.0084)
                    * (1-0.00fq) * 8.67 (d1865)
          - -0.7148
 (12(non) = (0.01513 + 0.5 x 0.0064) (-4.769-0.0084)
                                r- (1-0.0051) . (0.20000)
         = 0.0199
 x = wo + wixi +wixx
    =-0.0829 + (-0 ==11 dr +6.6=541 8651) +
                                        (0.0mg .-0 sto
      = - 6.261
  1 = 14.6' = 14.6.121
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= 0.00 Bigl