Logistic Regression

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y = 1 prediction > 1 Buy Signated function/ logistic function for = 1+ex

 $\frac{1}{1+\tilde{e}^{2}} = P = poobability - b observ$ O

If P 2 0.5 7 class 1 If P<OS => class 0

1-P = e(m2+c)

E= 1 = (9-1/2)

Regienion

A= 8000 P= 3097 800 L NB 13

M2 C1 > A=0 مراح ح P = 0.45 P= 0.55 =)

P= 0.01 =7 P=0 3 P 31 P= 0.95

(from) E= = 1 & (m/n gg + (1-2) log(1-3) pinary cross entropy

1-9 = pribob

y=matc

g = Prob of YB

Linear - R 25-ension

分= mカナム

E = 1/2 (y-9)2 (wit)

Gradient Dencont

Reg. - classification log (FP) = mx+C

E- 1 2 (-ylogý + (1-y)log(1-ŷ)) CAUSS EN Jarpy

Gradient Descent

