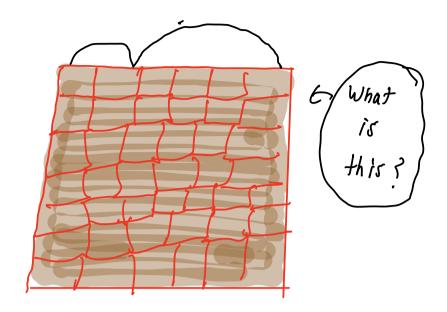
will start at 9:05 PM



Logistic Regression

1. 2 case studies

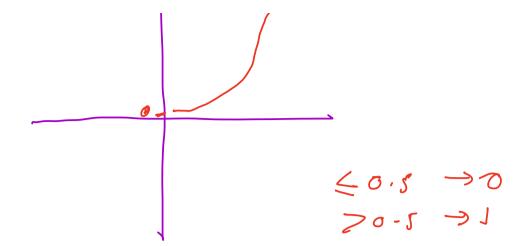
15+ => Logistic Reg

B

API (=>) p-valn

E(y-D)2

1-1-12
14 e⁻²
11
Regularisation



X y y y-pred 20 1 0.8 40 0 0.2. 60 0 0.45

 $\frac{qo}{loo} \sim qor Accuracy$

R2

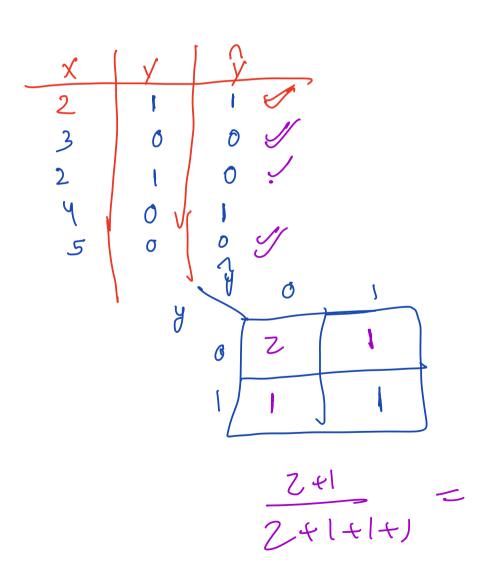
Soo dataret > 100 wrong

ACCURACU

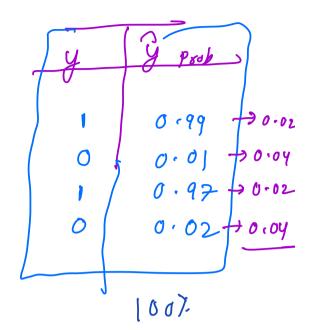
Train, CU, test

data -> 00%, 20%, fest

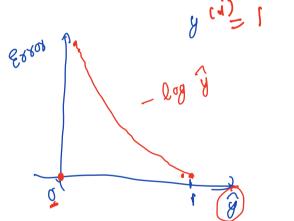
train CV



ACCURACY = 1007



y (i) [



 $\left\{ -\log \left(\hat{y}^{(i)} \right) \right\} = 1$ $\left\{ -\log \left(1 - \hat{y}^{(i)} \right) \right\}$ $\left\{ -\log \left(1 - \hat{y}^{(i)} \right) \right\}$ $\left\{ +y^{(i)} = 0$

$$\log - \log s = -y^{(1)} \cdot \log (\hat{y}^{(1)}) - (1 - y^{(1)}) \cdot \log (\hat{y}^{(1)})$$

$$\lim_{N \to \infty} \frac{2}{N} \cdot L + \lambda = \lim_{N \to \infty} \frac{2$$