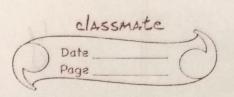
1 Linear Regression KI JAKES L = 1 & (actual predicted)

2 n = 1 predicted - actual

mx+c)

ry this 1? extra 1? why this 17 During Gradient Calculation that is 32 square term reduced => 2 80, 2 x 1 => \frac{1}{2} \((4-\frac{1}{2})^2\)
=> 2 80, 2 x 1 => \frac{1}{2} \((4-\frac{1}{2})^2\)
=> 2 80, 2 x 1 => \frac{1}{2} \((4-\frac{1}{2})^2\)
=> 2 80, 2 x 1 => \frac{1}{2} \((4-\frac{1}{2})^2\)
=> 2 80, 2 x 1 => \frac{1}{2} \((4-\frac{1}{2})^2\)
=> 2 80, 2 x 1 => \frac{1}{2} \((4-\frac{1}{2})^2\)



Convergence Algo

to where = word - 7 DL Dword

- o why optimizers are used in DL not in ML?
 - prevent models from getting stuck in local minima

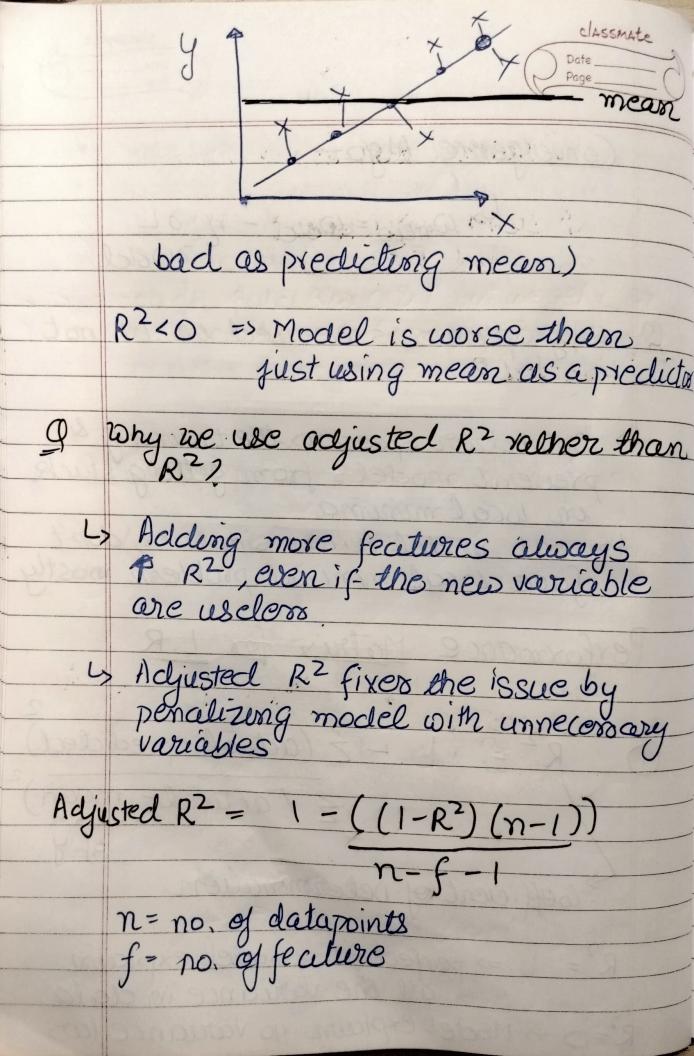
face vocal menima problem mostly.

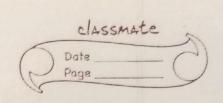
l'exformance Matrix for L.R

DR2 = 1 - \(\) (actual - predicted) \(\) \(\) \(\) \(\) (actual - mean) \(\)

Gefficient of Determination

R2= 1 => perfect fit => model explain all the variance in data R2=0 => Model explain no variance (as





R² (with 2 feature) => 0.80

Adjusted R² => 0.80

R² (with lofeature) => 0.90

-> Adjusted R² => 0.75

Larro & Ridge Regularization

Larro & Ridge Regularization

Absolute square value

* Laron also used for feature selection

Things to Do Before Applying Linear Regression

Di) Check if the Data is Linearly separable

Di Mandle Mississ In large

Mandle Missing value

Feature Selection => Check Correlation

Creck outlier => Boxplot. (2500e)

Scale Feature >> Standardization

Ly Normalization 081.

