Agenda

- o Consay Dosta
- Data Notation
- 9 Goal of ML
- 9 Linear Regression Intuition
- O SKLearn Imprentation
- D LORR Punction and Evaluation Metric

Carsall Dataset

Dool: To baild a mr model that

Tonget 6 Sell_Price

Features: 17

Ordinal Encadin,
OHE 9 X
Tonget Encading so place each of the category (Tonget) (Tonget)
Feature Scaling
1 Min-roax Scalers of E1, 17
D Standan Scalers mean = 0 5td = 1

- 1 Feetwee Scaling make model
- Déights one more Interetable

[1,1]

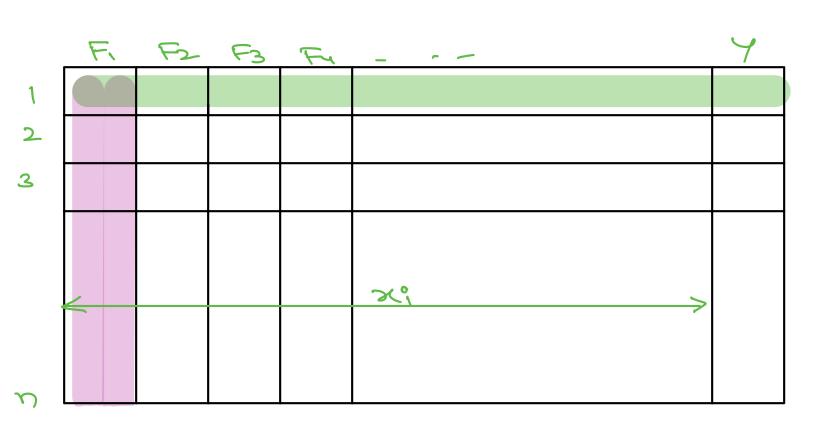
Donget - von: Solling-paire

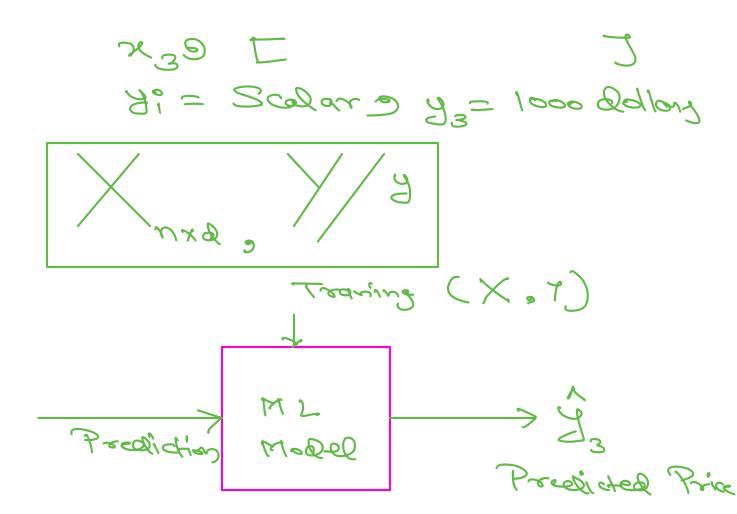
Ta, b

R

2 Bedeskins

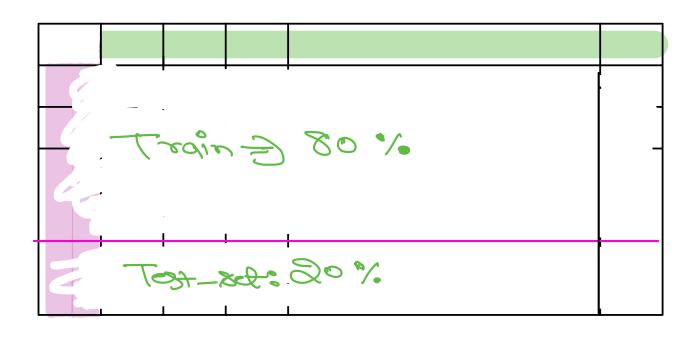
Data Annotation

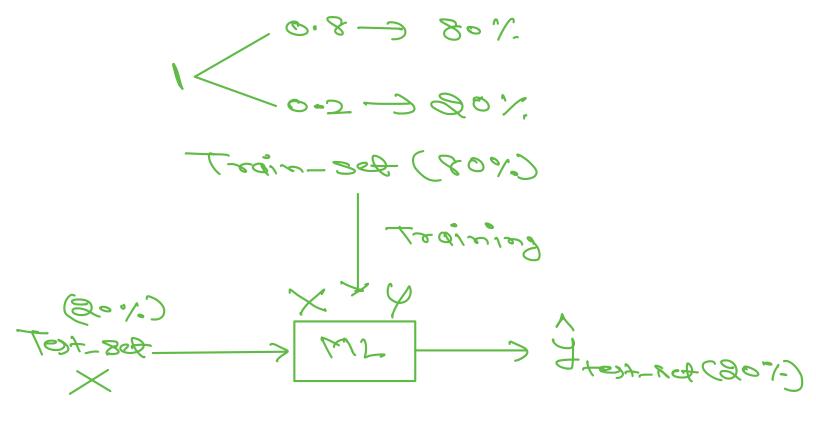






Predicted & Actual



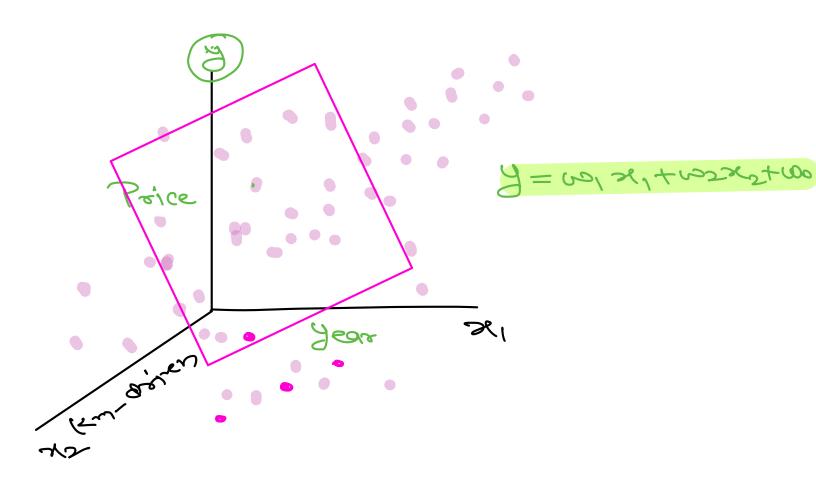


J test get test get

Intuition

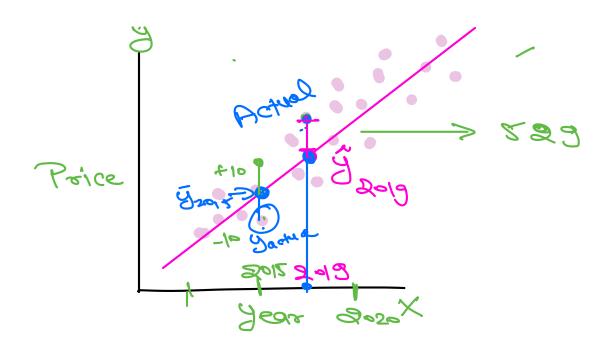
9 Linear Model

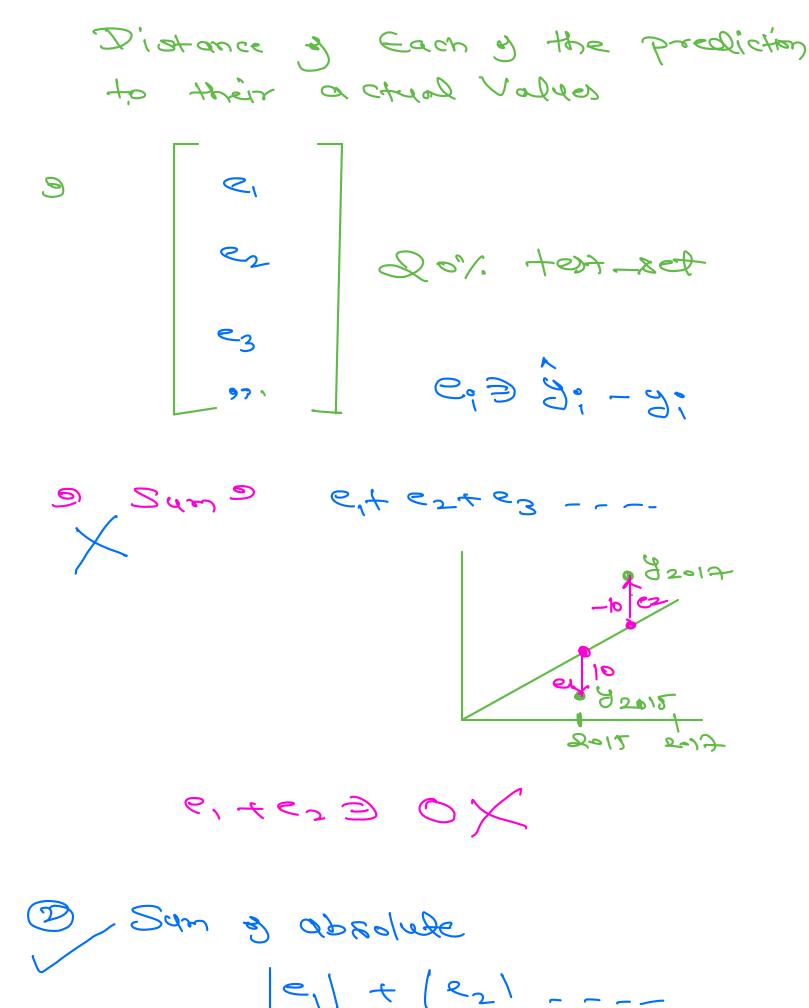






Dimension of Hyperplane Dad

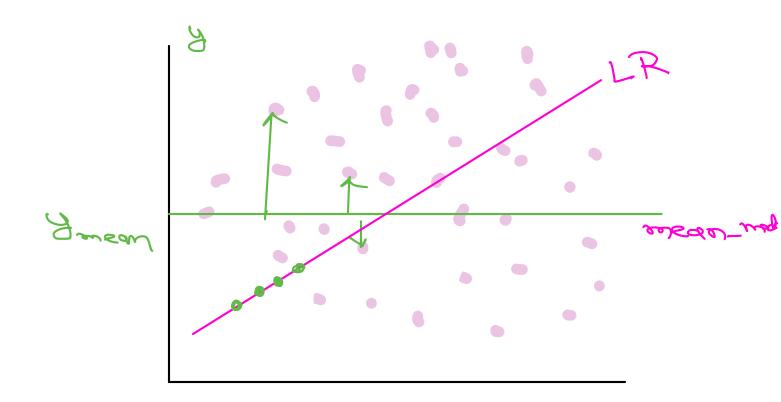




(e1) + (e2) 5 20

For a Good Model min (sam of aprolute Error) MAC 9 Mean Abrolut Coro $\frac{1}{2} = 0$ Sum es erous Square Total E 8500 = 8,4 82 - - -MSG o I Sei

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	winiman	
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دسم		m2 16 setter than m1



to compare any madel with mean-madel as Bandine

Record SS resear

How well Linear Regression

1810del is doing compared

to mean Model

Todo: Calculate R2-score

Case 19 LR Ras Same Error

on Mean

Carczo LR Ras O Groot

Case 35 LR Las 00 Error

1 Ordinal Encading

Education-3tatal

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9	Ford		0	>

3 Torset Encoding

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Lard Susan 2 Leads