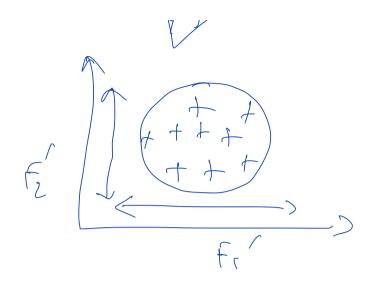
Lout Clan (July 27)

- D) Quick recup
- 2) Target variable encoding
- 3) Scaling the data
- 4) Data Notation
- 5) Ml Generali zation
- 6) Lin Reg Intertion
- 7) Evaluation Medic

Today's class

- 1) Quick recup
- 2) Review of R2 Score
- 3) Model interpretability
- 4) Revision of Gradient Descent
- 5) Code for Linear Regression
- 6) Optimization
- 7) Implementing Gradient Descent
- 8) Plot loss funtion as weights
- 9) How feature scaling helps in earier model training.

2,00,000 50 t (W2) × odmeter



Loss = MSE for

= MSE for

= MSE for

(y(i) - y(i))2

error = MSE for

(y(i) - y(i))2

must recensory

for be dutt evaluable

g = Wo + W, N, + W2 N2+ ... Wy Ny = b + W^T X

$$W = \begin{bmatrix} w_1 \\ w_2 \\ \vdots \\ w_d \end{bmatrix}$$

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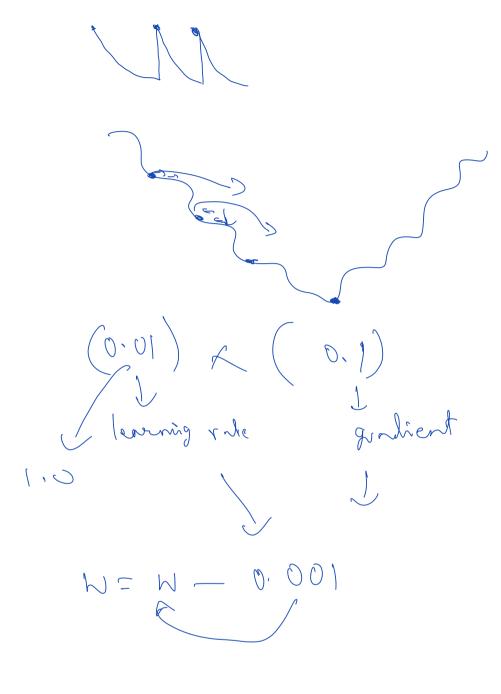
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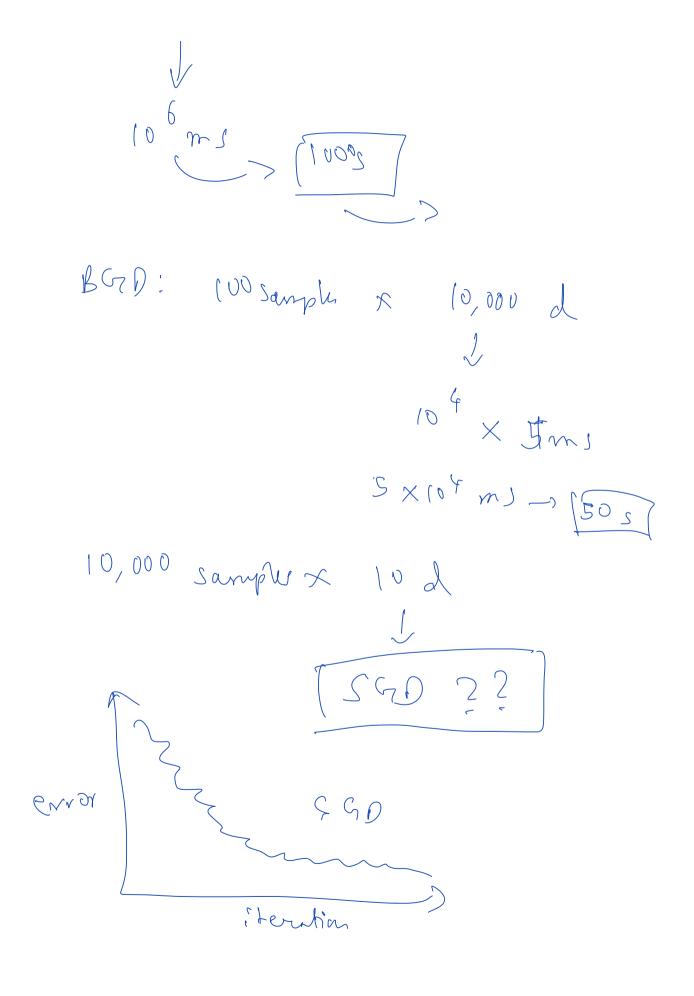
$$W = \begin{bmatrix} x_1 \\ x_2 \\$$

X - trown -> M, 5 -> X, frain 1 - 4 ent -> -test X _ frain -> 1000 × 10 2 1000 samples 1 × 10 1 ~ 10



W > 5.0, \$\frac{\xeta_1999}{\xeta_1999}, \frac{\xeta_1999}{\xeta_1999}....

5.0~7 4.9, 6.8, V. g. ...



Bhp evra it contion

20/20 2 -7 test random. State = k2