Grithan:

ho(x): Oo+ O,x, + Qx2 + O,x3 + ... Grxn

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ho(x): Oo+ O,x, + Qx2 + O,x3 + ... Grxn

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for fun 09/10/22 Lireal Reguestion Algorithan ho(x) = Oo + O, x

Convergence Algorithm is received with rece summer of MSE quickly point received with rece summer of the function of the fu

$$\theta_j = \theta_j - \sqrt{\frac{d}{d\theta_j}} J(\theta_j)$$

$$\frac{\partial}{\partial x} (x)^{n} = n x^{n-1}(1)$$

$$\frac{\partial}{\partial x} (x+1)^{n} = 2 \times (x+1) \times (1+0)$$

$$\frac{\partial}{\partial x} \left( \chi \right) = \frac{\partial}{\partial x} \left( \chi \right) = \frac{\partial}$$

$$= \frac{\partial}{\partial \theta_{i}} \left( \frac{1}{2m} \sum_{i=1}^{m} (\theta_{i} + \theta_{i}x)^{(i)} - y^{(i)} \right)^{2} \right)^{2}$$

Fifted until convergence
$$\frac{2}{8} \left( \frac{6}{6} + \frac{6}{12} \right)^{1/2} - \frac{1}{4} \right) \times \left[ \times \right]$$
Figure with convergence
$$\frac{2}{8} \left( \frac{6}{6} + \frac{6}{12} \right)^{1/2} - \frac{1}{4} \right) \times \left[ \times \right]$$
Figure with convergence
$$\frac{2}{8} \left( \frac{6}{6} + \frac{6}{12} \right)^{1/2} - \frac{1}{4} \right) \times \left[ \times \right]$$
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Figure with convergence
$$\frac{2}{8} \left( \frac{6}{6} + \frac{6}{12} \right)^{1/2} - \frac{1}{4} \times \left[ \frac{1}{4} \right]$$
Figure with convergence
$$\frac{2}{8} \left( \frac{6}{12} + \frac{6}{12} \right)^{1/2} - \frac{1}{4} \times \left[ \frac{1}{4} \right]$$
Figure with convergence
$$\frac{2}{8} \left( \frac{6}{12} + \frac{6}{12} \right)^{1/2} - \frac{1}{4} \times \left[ \frac{1}{4} \right]$$
Figure with convergence
$$\frac{2}{8} \left( \frac{6}{12} + \frac{6}{12} \right)^{1/2} - \frac{1}{4} \times \left[ \frac{1}{4} \right]$$
Figure with convergence
$$\frac{2}{8} \left( \frac{6}{12} + \frac{6}{12} \right)^{1/2} - \frac{1}{4} \times \left[ \frac{1}{4} + \frac{6}{12} \right]$$
Figure with convergence
$$\frac{2}{8} \left( \frac{6}{12} + \frac{6}{1$$

Root Mean Squared Elven Cost Lunctiony :-2. MAE 3. RMSE, 4. Hubellas. 1. MSE MSE = Mean Sanated Errog g = 0,+0,2 MSE = - predicted Value auadoure eayation I at seas Disaduntary Advantagy This equation is not 1. This equation is differentiable nobust to authors also has one glesal minima. semore the out Kelss , non bentek penaltring the every function Global minima incorporing) mirina GUST minima (J-1)2 squared -> Evers -> Penalized . There is no local minima. dependent Exp Salory (Jakhy) (Salory-Predicter Salor) of Laurn) MSE => 111

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Combination of MSE & MAE

Of there is outlies up MAE otherwise MBE

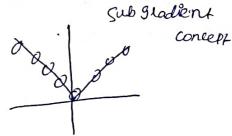
Advantage :-

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- · Outliers are handled Properly
- · lead minima situation is handled hele

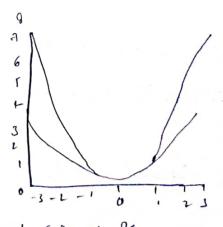
Distaduantose.

mol time- Optimization is a Complex task



. Time Consumbry.

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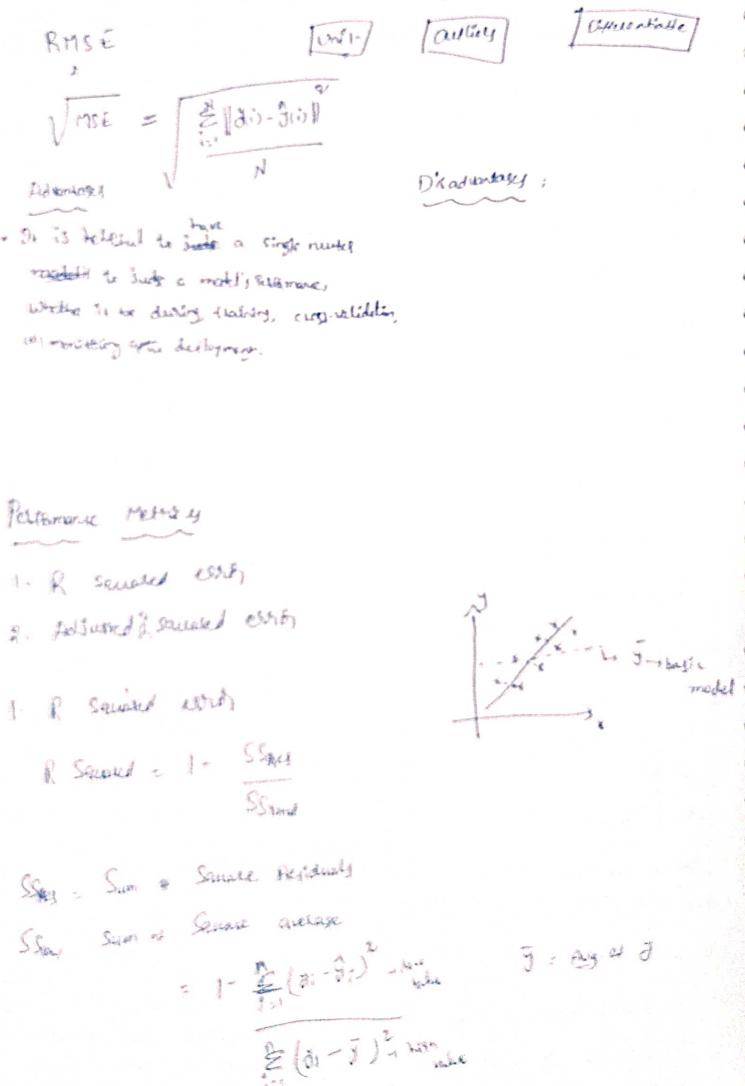
Ls (a) = \frac{1}{2}a^2(8.191-\frac{1}{2}8)

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6. It is complex.



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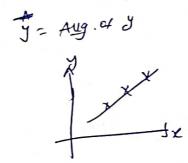
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Train: vous good acuracy' [90%] [Low Bias] of HyperParameter Test: Bad acculance (50%) [High volumes] n'inclease the data Olesfittige Tran = Model accuracy is Low [Hish blay] LOW/Wigh [low con high vocane] Test = Model model is Under fitting maining data (-· Lineal Regression :-1. Calculation = J= mx+c a. Loss [MAE, MSE, RMSE, Hubs loss] 3. Opfimizing (m, c) = minimise the LONS ( Gledient decent)