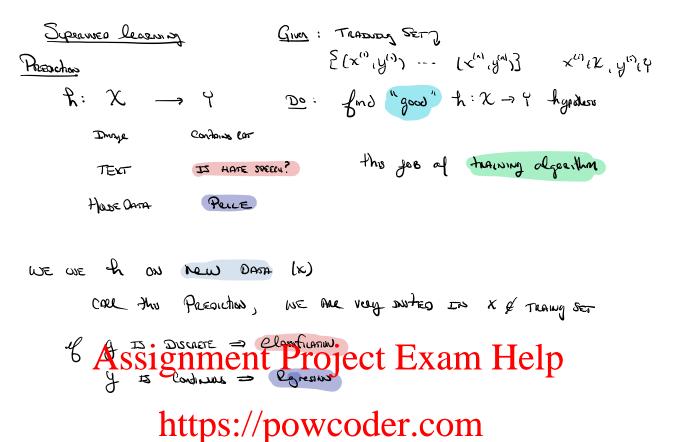
Supervises TEARDING

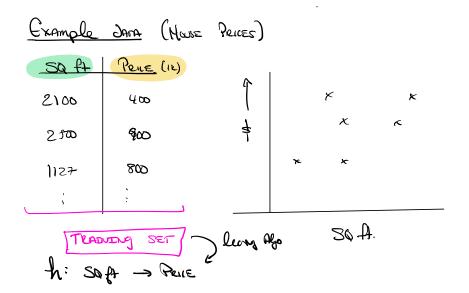
- + definitions
- + LNEAR ROYENION
- + Satch & STOCKOSTIC GRADIANT descent
- + Mornal Equations

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How do we expressed h?
$$h(x) = \Theta_0 + \Theta_1 x$$
, (affer g_n .)

$$\frac{X_{1}^{(1)}}{S_{12E}} \frac{S_{E0100M}}{S_{E0100M}} \frac{lot size}{size} \cdot Proce_{X^{(2)}}$$

$$\chi^{(2)} \qquad 2700 \qquad 3 \qquad 30x \qquad 900$$

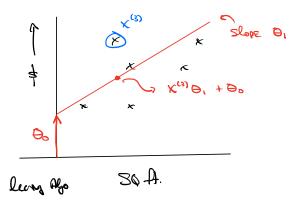
$$h(x) = \Theta_{0} + \Theta_{1} X_{1} + \Theta_{2} X_{2} + \cdots$$

$$= \frac{3}{2} \Theta_{1} X_{1}^{2} \qquad NB X_{0} identically 1$$

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PARAMETERS https://powcoder.com

N examples X



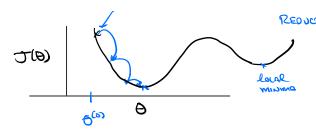
ho(x) = \$\frac{1}{2} \text{D}_j \text{X}_j \quad \text{WAUT TO CHOOSE } \text{D} \text{SH. } \text{ho(x) \$\approx\$ Y

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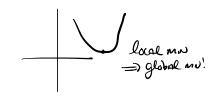
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GRADIENT Descent

START BOOD AT RANSON ON ZELT



7=1...9



$$\Theta_{(t+1)}^{2} := \Theta_{(t)}^{2} - \propto \frac{90^{4}}{9} 2(\Theta_{(t)})$$

$$\Theta_{(t)}^{(t)} := 0$$

$$\frac{2J(\theta)}{2\theta i} = \sum_{i=1}^{n} \frac{2i}{2\theta i} \left(k_{\theta}(x^{(i)}) - y^{(i)} \right)^{2}$$

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$$\beta_{4}^{(H')} := \beta_{4}^{(1)} - \alpha \sum_{i=1}^{n} (h_{a}(x^{(i)}) - y^{(i)}) x_{4}^{(i)}$$

Sometimes write as $\Theta^{(4)} := \Theta^{(4)} - \alpha \hat{\Sigma} (h_0(x^{(4)}) - g^{(4)}) \times \hat{U}$

MINICACTOT: RANDOMLY SELECT LAN POINTS AND ESTIMATE GRADIENT

1. Pick b points { i, .. in = B

2

One DETAIL Scale & AND of differently.

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How a you Add We Chat powcoder

Mormal Equation

$$\sqrt{2} 2(0) = \begin{bmatrix} 30^{2} 2(0) \\ 30^{2} 2(0) \end{bmatrix}$$

$$A \in \mathbb{R}^{2\times 2}$$

$$A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix} \qquad f: A \to \mathbb{R}$$

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$$X = \begin{bmatrix} -x^{(i)} - \\ x^{(2)} \\ \vdots \\ x^{(n)} \end{bmatrix} \in \mathbb{R}^{n \times d}$$
 Design Matrix

$$\chi \Theta = \begin{bmatrix} & & & \\ & & & \\ & & & \end{bmatrix} \begin{bmatrix} & & \\ & & \\ & & \\ & & \end{bmatrix} = \begin{bmatrix} & & \\ & & \\ & & \\ & & \\ & & \end{bmatrix} \begin{bmatrix} & & \\ & & \\ & & \\ & & \\ & & \end{bmatrix}$$

$$y = \begin{bmatrix} y^{(1)} \\ y^{(2)} \end{bmatrix} = \text{der} \quad \text{with} \quad \int (x\theta - y)^{2} (x\theta - y)^{2} dy$$

$$\nabla_{\Theta} \mathcal{J}(\Theta) = \mathcal{X}^{T} \mathcal{X} \Theta - \mathcal{X}^{T} \mathcal{Y} = 0 \Rightarrow \Theta = (\mathcal{X}^{T} \mathcal{X})^{T} \mathcal{X}^{T} \mathcal{Y}$$

OPTIMAL VALUE.