31/10/24, 14:25 OneNote

GRADIENT DESCENT FOR MUL. VARIABLES

sabato 19 ottobre 2024 17:03

UNIVARIATE LINEAR REGRESSION HA PARAMETRI FISSATI

$$\frac{h_{o}(x) = \theta_{o} + \theta_{i} x}{5\left(\theta_{o}, \theta_{i}\right) = \frac{L}{2m}} = \frac{e \cdot 6nt}{\left(h_{o}(x^{1i})\right) - g^{(i)}}^{2}$$

$$\frac{h_{o}(x) = \theta_{o} + \theta_{i} x}{5\left(\theta_{o}, \theta_{i}\right)} = \frac{L}{2m} \left(\frac{h_{o}(x^{1i})}{h_{o}(x^{1i})}\right) - g^{(i)}^{2}$$

$$\frac{h_{o}(x) = \theta_{o} + \theta_{i} x}{2m} = e \cdot 6nt$$

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MULTIVARIATE LINEAR REGRESSION

$$h_{\Theta}(x^{(i)}) = \Theta_0 + \Theta_1 x^{(i)} + \Theta_2 x_2^{(i)} \dots \Theta_m x_m^{(i)}$$

 $\Theta_0, \Theta_1, \Theta_2 \dots \Theta_m$

$$\frac{J(\theta)}{J(\theta)} = \frac{J(\theta_0, 0_1, \theta_2 \dots \theta_m)}{J(\theta_0, 0_1, \theta_2 \dots \theta_m)} = \frac{1}{2m} \left(\frac{J(\theta_0, \theta_1, \theta_2 \dots \theta_m)}{J(\theta_0, \theta_1, \theta_2 \dots \theta_m)} - \frac{J(\theta_0, \theta_1, \theta_2 \dots \theta_m)}{J(\theta_0, \theta_1, \theta_2 \dots \theta_m)} \right)^2$$