Regression * Linear 2 Prodiction egn: Date Υ_2 2 OPHIMIZE 2.6 -3.8 Hem! 8.3 1.3 -1.2 weights model roroms b I model biss weights + Total biases.

(3) Cost Function 100-8 0 .3 26.3 -15.6 2.6 High -> Model needs more facilities low -> Good Sign. Model needs less trong Converging -> We an stop the tookning

Algorithm Descent Wagient Optimisation 20 > prodient erain rote given 0 (100.0)

$$\frac{3}{dy} = 1.00$$

$$\frac{3x}{1x} = 6x$$

$$\Rightarrow y = K(ax + b)^{n} \Rightarrow \frac{dy}{dx} = nK(ax + b).a$$

$$\Rightarrow y = |x| f(x)^n$$

$$\frac{1}{12} = 1. k f(x) \cdot f'(x)$$

$$\frac{19}{32} = -4(3448).(3) = -12(326+8)$$

$$y = x^{2}t^{2} + 3xt^{3} - 3t + 2x$$

$$\frac{\partial y}{\partial t} = 2tx^2 + 9xt^2 - 3$$

$$\frac{\partial N}{\partial b} = \frac{1}{N} \sum_{i=1}^{N} \left[2(y_i - (w_{x_i} + b)) \cdot (-1) \right] = \frac{1}{N} \sum_{i=1}^{N} \left[-2(y_i - \hat{y}_i) \right]$$