

Backpropagation Algorithm epochs=5 > (5)

for i in range (epochs):

- > Select 1 row (random)
- - → Update weights and bias using GD

$$W_n = W_0 - 2 \frac{\partial L}{\partial W}$$

-> Calculate any loss for the epoch

$$\frac{\partial W_1^{11}}{\partial L} = -2(\lambda-\hat{\lambda})011$$

$$\frac{\partial L}{\partial w_{21}^2} = -2(y-\hat{y})O_{12}$$

$$\frac{2L}{2b_{21}} = -2(y-\hat{y})$$

$$\frac{\partial L}{\partial w_{ij}} = -2(y-\hat{y}) w_{ij}^2 x_i$$

$$\frac{\partial L}{\partial w'_{21}} = -2 (y - \hat{y}) w_{11}^2 \times i_2$$

$$\frac{\partial L}{\partial b_{11}} = -2(y-\hat{y})W_{11}^{2}$$

$$\frac{3L}{3W_{12}'} = -2(y-\hat{y})W_{2|}^2 \times ||$$