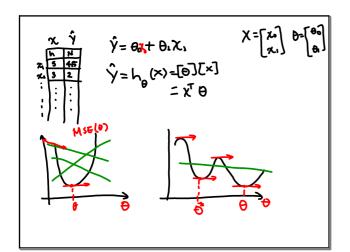
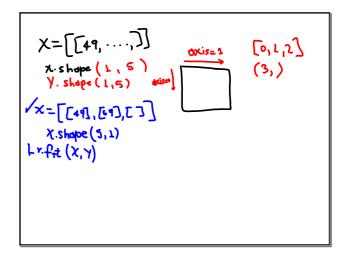
Clase\_1\_abr\_2023 April 01, 2023





$$MSE(\theta) = \frac{1}{N} \sum_{m=1}^{\infty} (\vec{\theta}x - y)^{2}$$

$$DMSE(\theta) = \frac{1}{N} \sum_{m=1}^{\infty} (\vec{\theta}x - y)^{2}$$

$$\nabla MSE(\theta) = \frac{1}{N} \sum_{m=1}^{\infty} (\vec{\theta}x - y)^{2}$$

$$\nabla = \frac{1}{N$$

$$\begin{bmatrix}
\hat{y} = X \hat{\theta} \\
MSE(\hat{\theta}) = \frac{1}{M} \sum_{m_{r-1}} (x \hat{\theta}^{T} - y)
\end{bmatrix}$$

$$VMSE(\hat{\theta}) = \begin{bmatrix}
\frac{\partial MSE}{\partial \hat{\theta}} \\
\frac{\partial MSE}{\partial \hat{\theta}}
\end{bmatrix} = \begin{bmatrix}
\frac{5}{M} \sum_{m_{r-1}} (\theta_{0} + \theta_{1} X - y)^{2} \\
= \frac{2}{M} (\theta_{0} X + \theta_{1} X_{r} - Y) \cdot (X_{0})
\end{bmatrix}$$

$$= \frac{2}{S}$$

$$\hat{\theta} = \theta - VMSE(\hat{\theta}) \cdot Q \quad \frac{2}{M} (\theta_{0} X_{0} + \theta_{0} X_{1} - y) \cdot (X_{1})$$