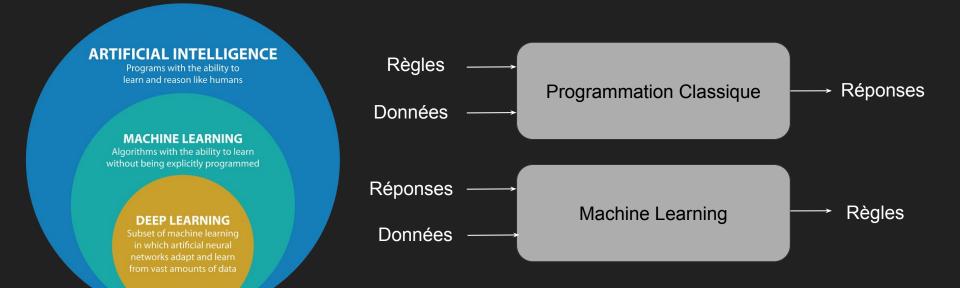
INTRODUCTION AU DEEP LEARNING

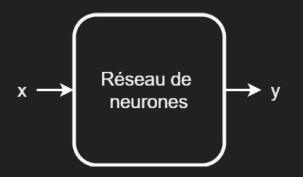


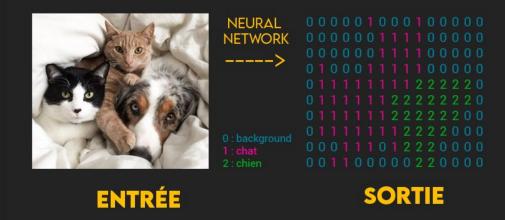
Réseaux de neurones

Vue d'ensemble - Machine Learning

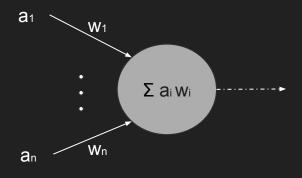


Vue d'ensemble - Réseau de neurones

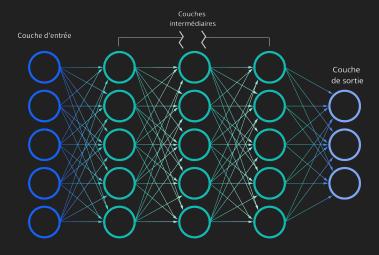




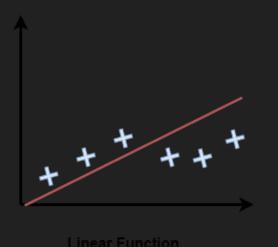
Neurone - Fonctionnement et Interconnexion

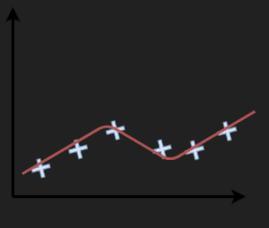


Neurone quelconque



Neurone - Biais et Fonction d'activation

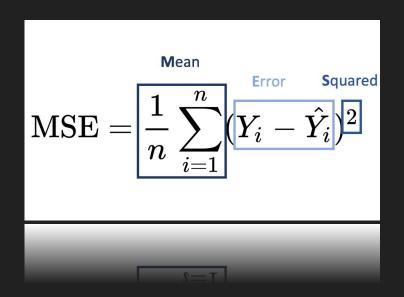


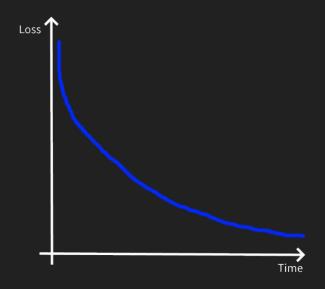


Sigmoid =
$$\frac{1}{1 + e^{-x}}$$
ReLU = $\max(0, x)$

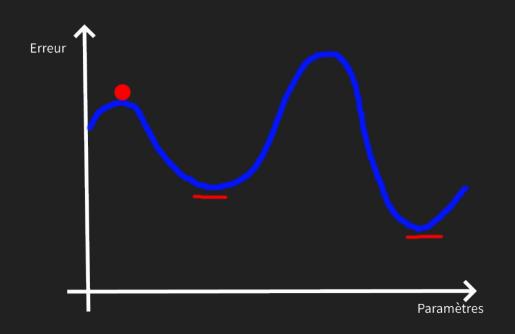
Non-Linear Function

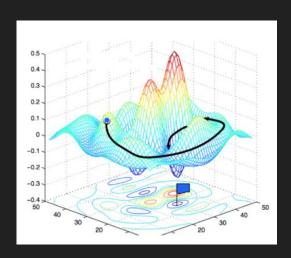
Entraînement - La fonction de coût





Entraînement - Backpropagation et descente de gradient





Place à la pratique!