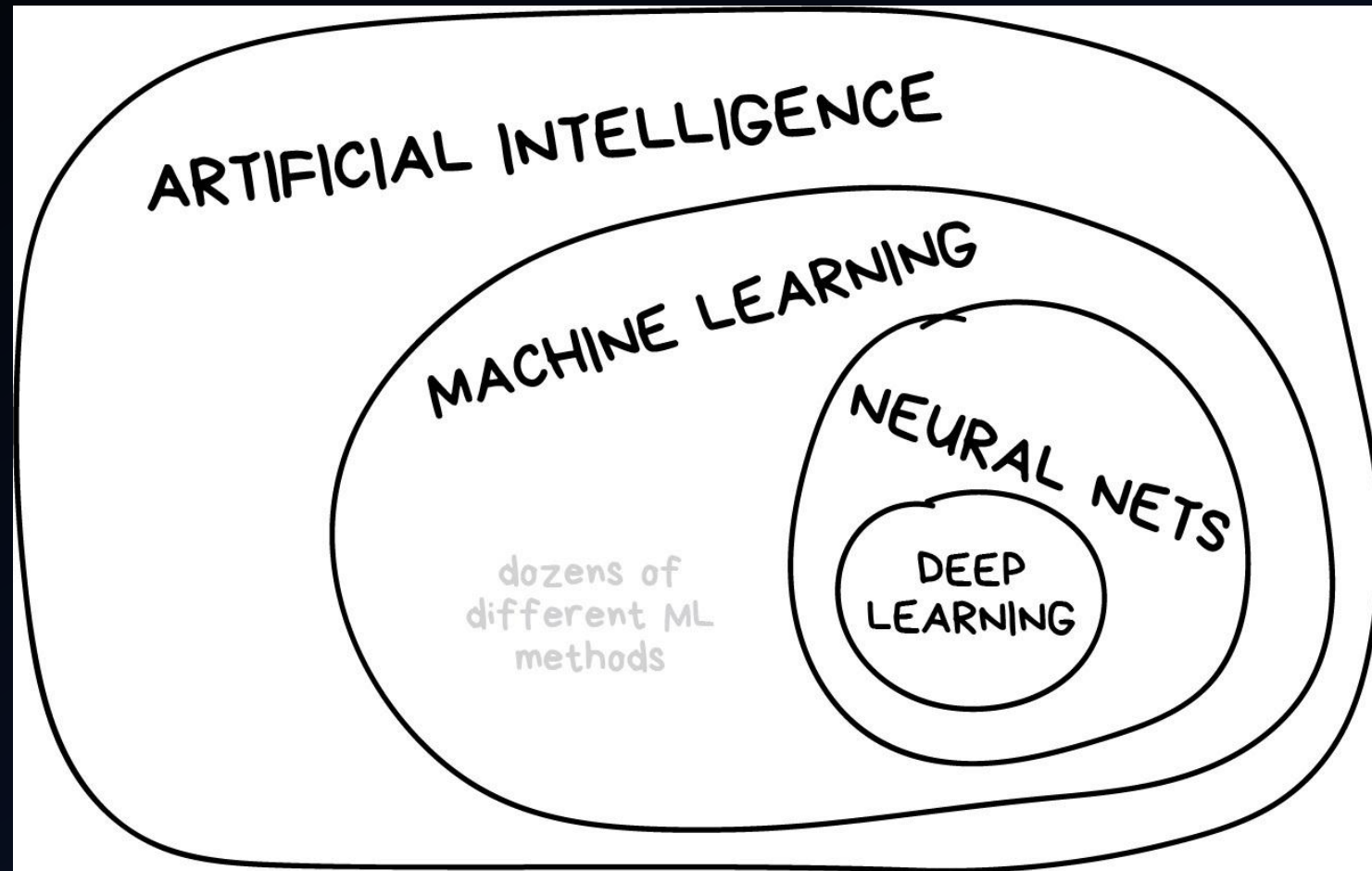


Machine Learning na prática

JOÃO PAULO SEIXAS
SAEG IFF

Machine Learning

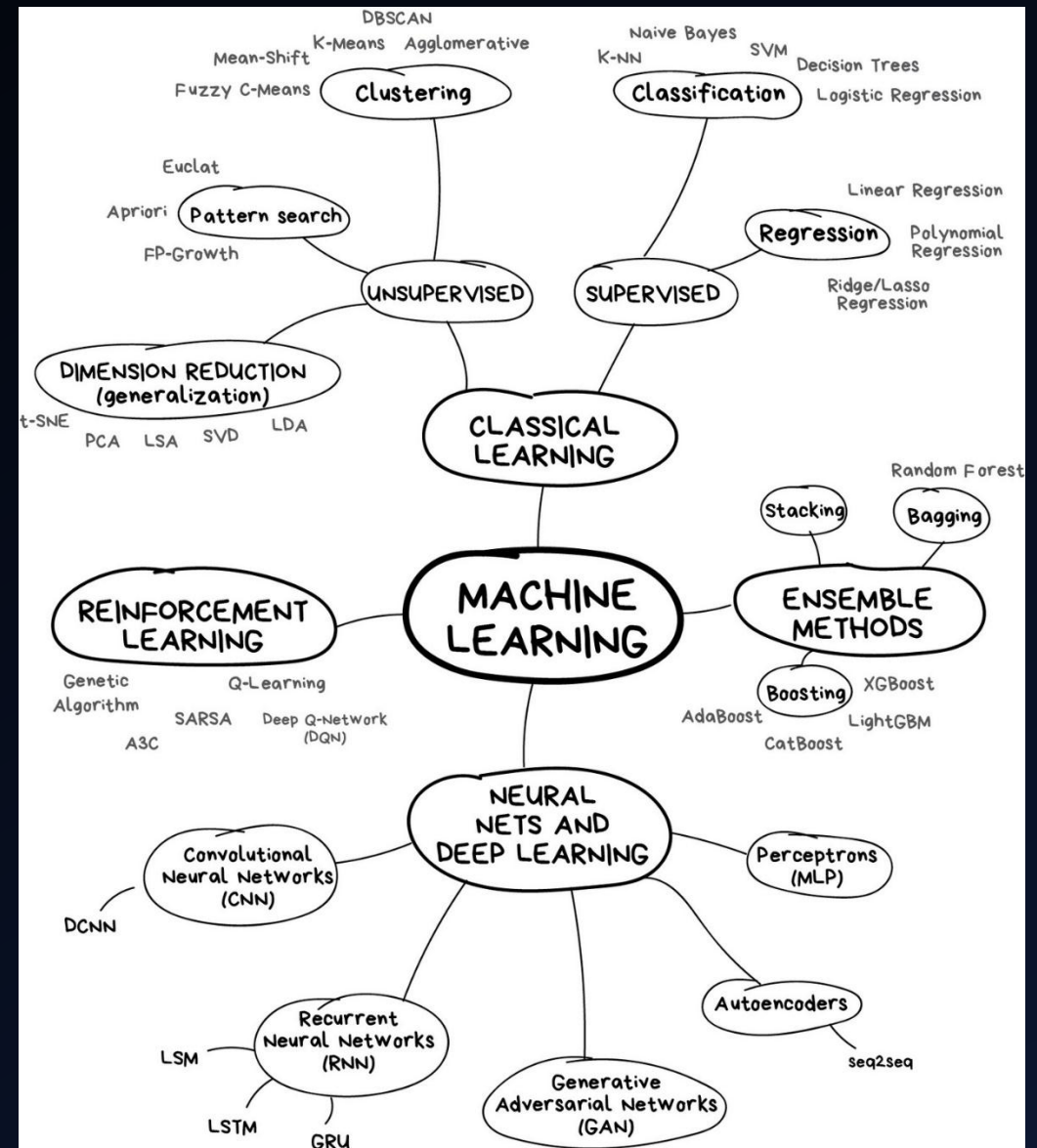


MACHINE LEARNING

Tipos de aprendizado

Modelos

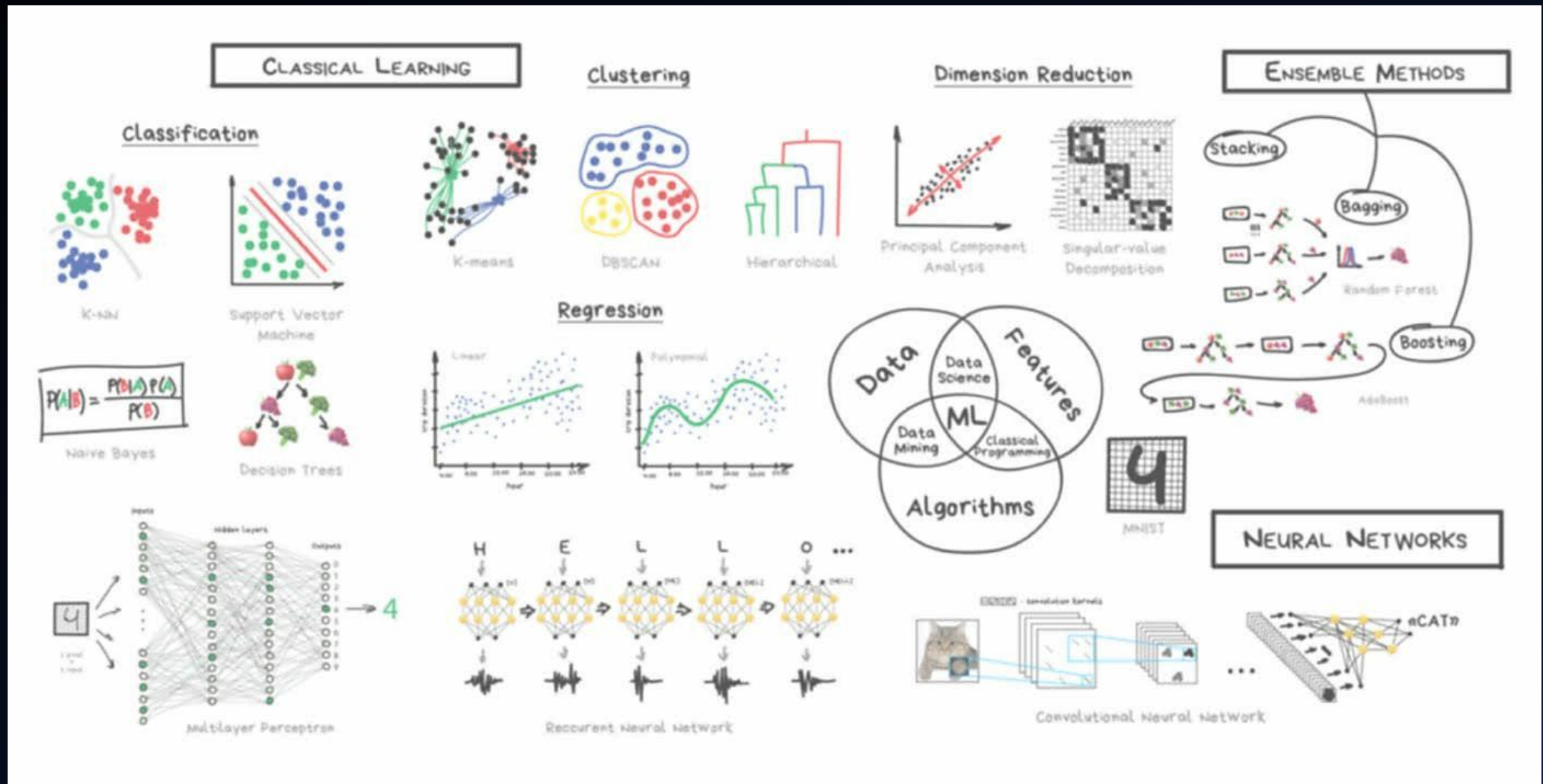
Algoritmos



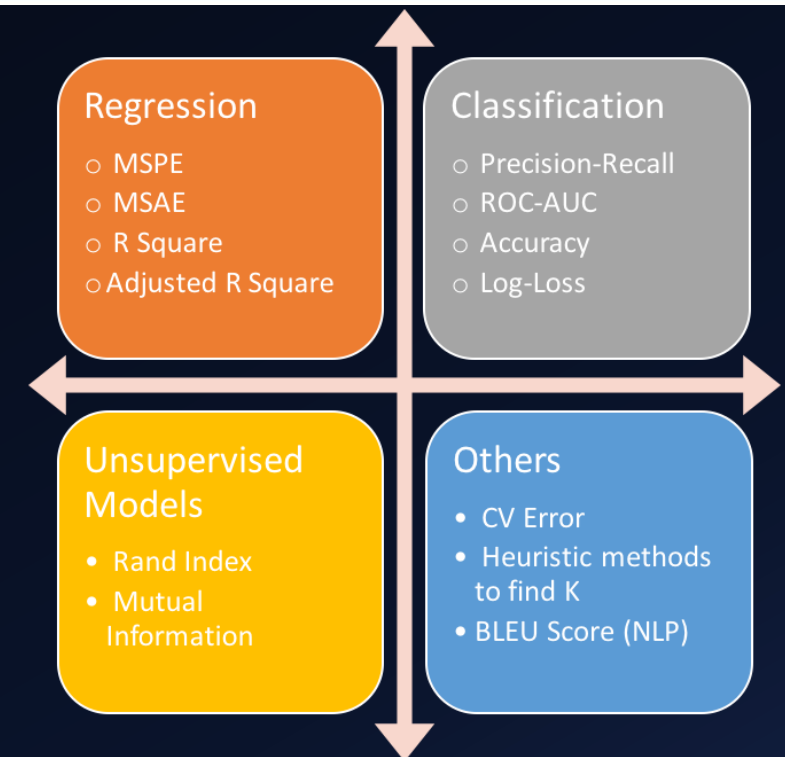
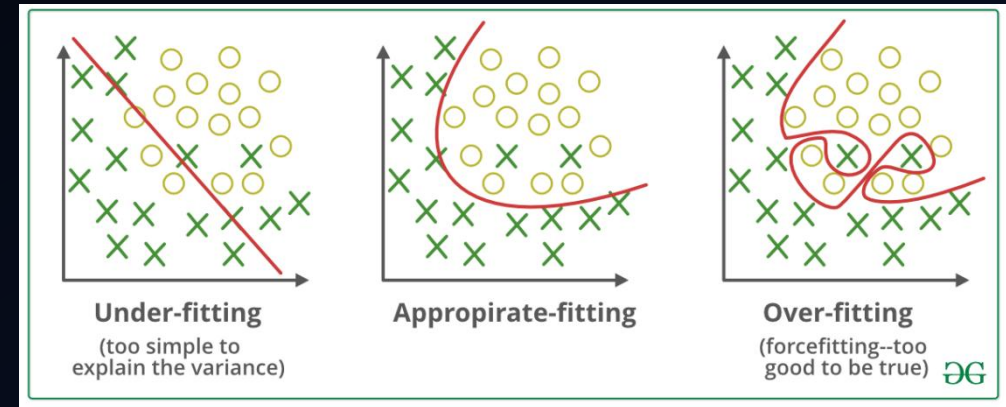
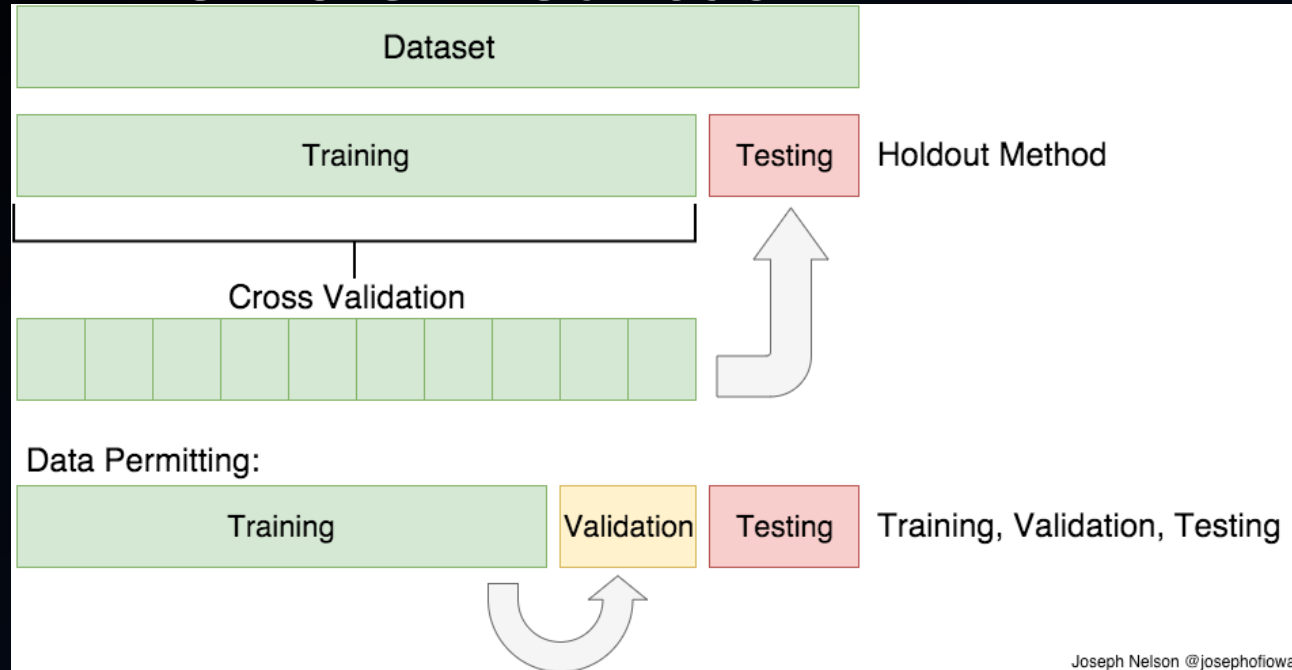
Ferramentas



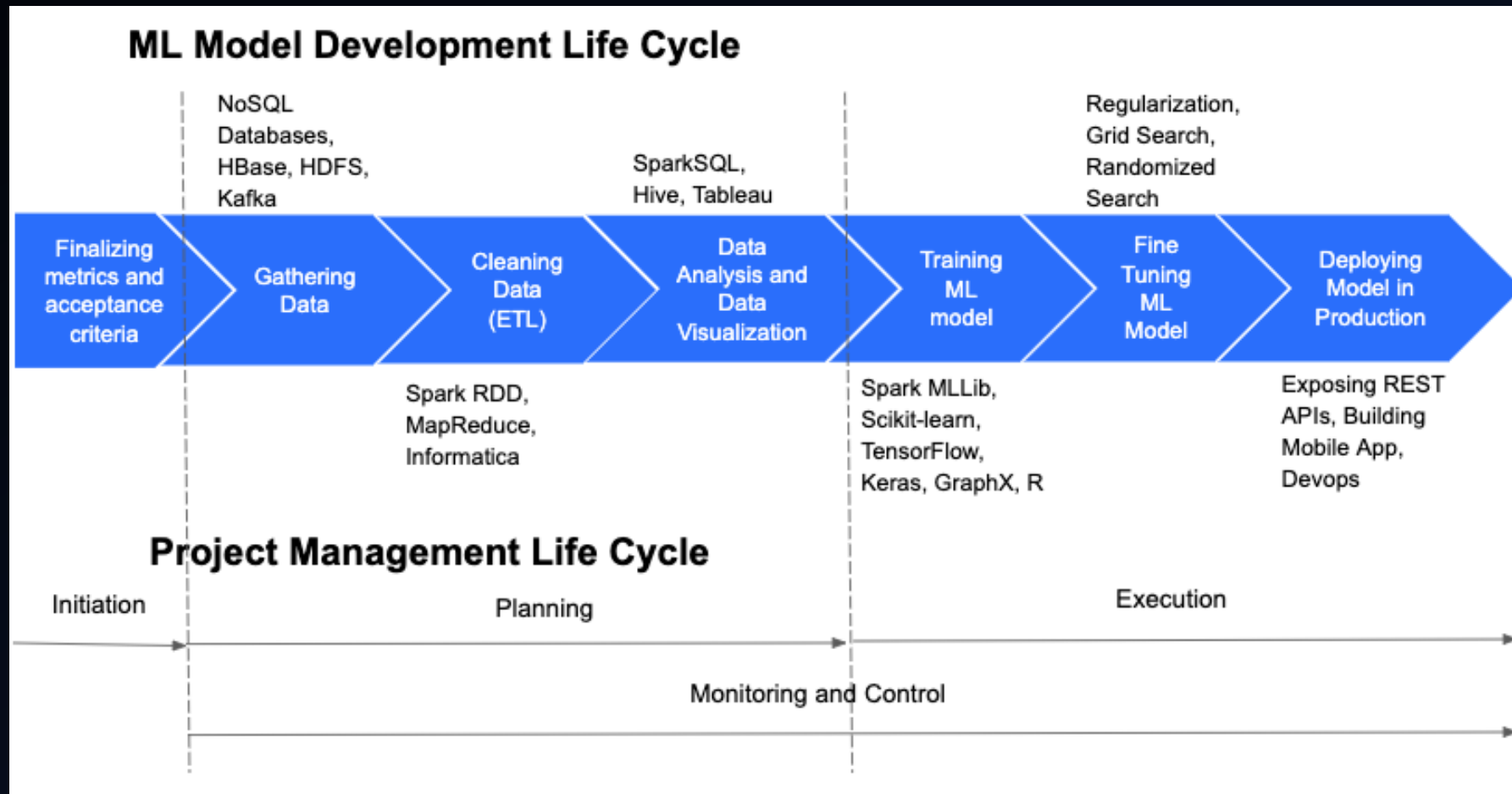
Modelos e Algoritmos



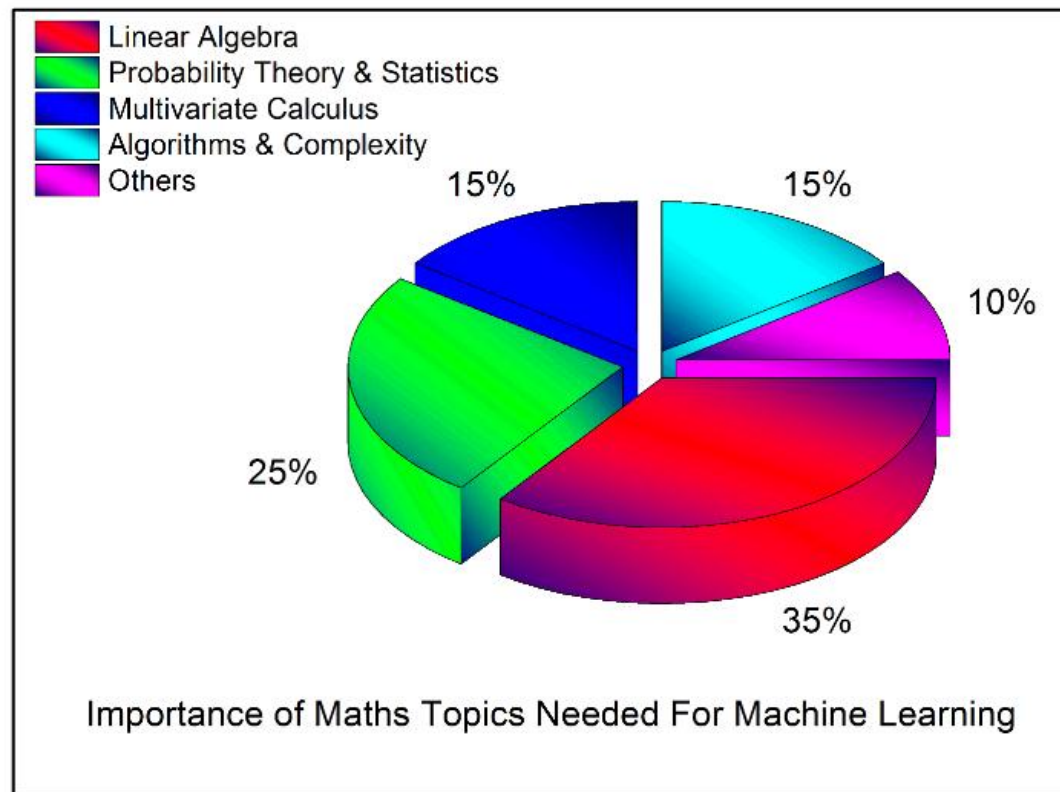
Treino e Métricas



Machine Learning Life Cycle



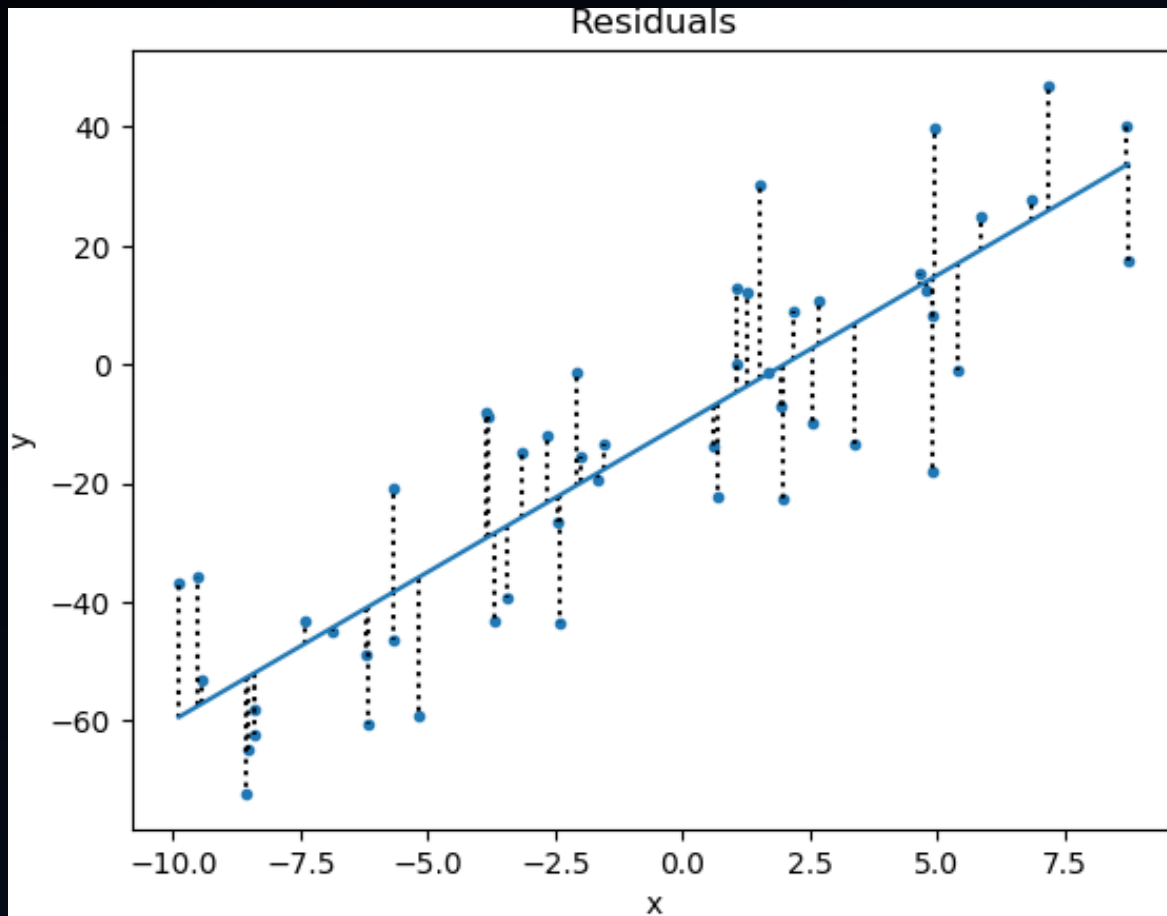
Tópicos



Machine Learning na prática



Regressão Linear

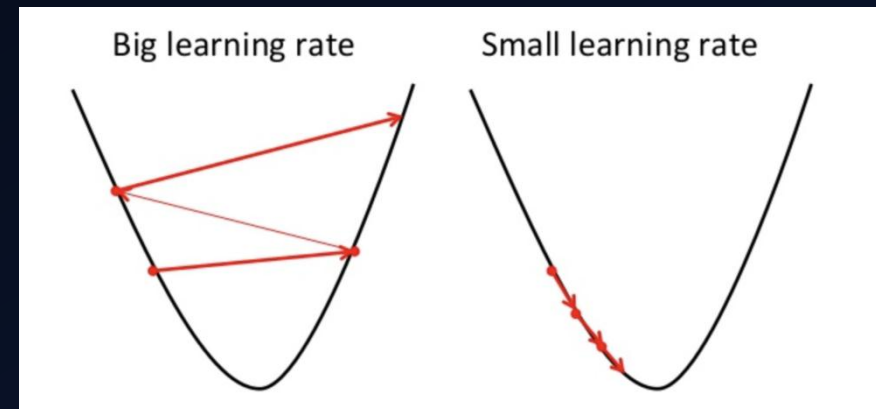


$$\text{minimize } \frac{1}{n} \sum_{i=1}^n (\text{pred}_i - y_i)^2$$

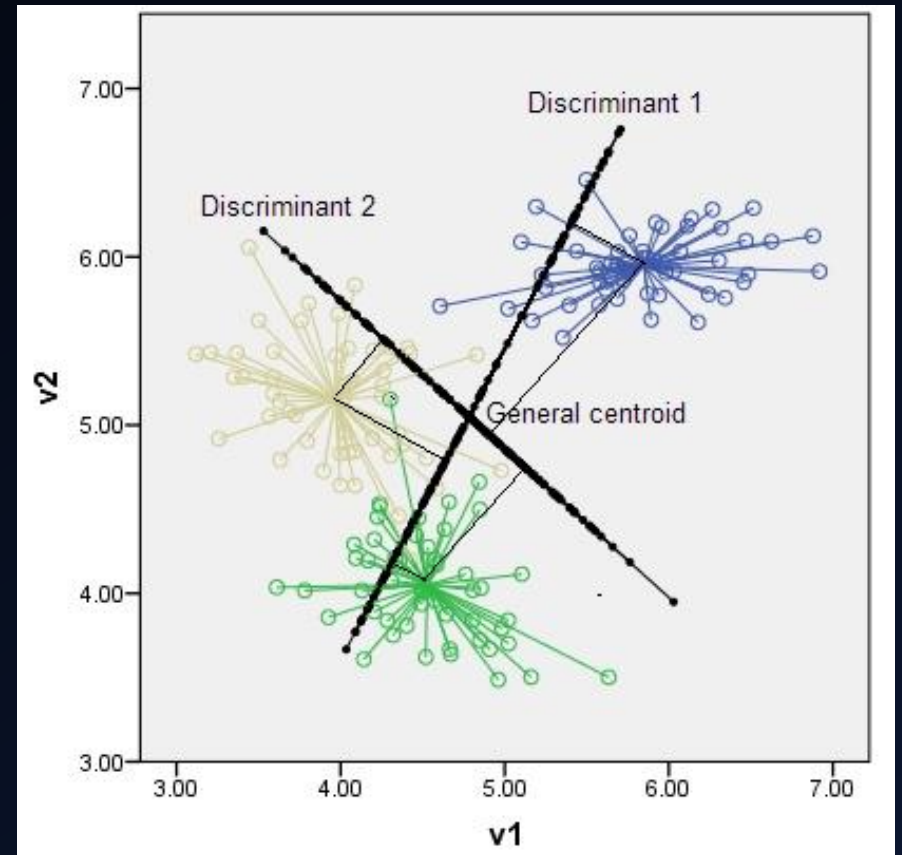
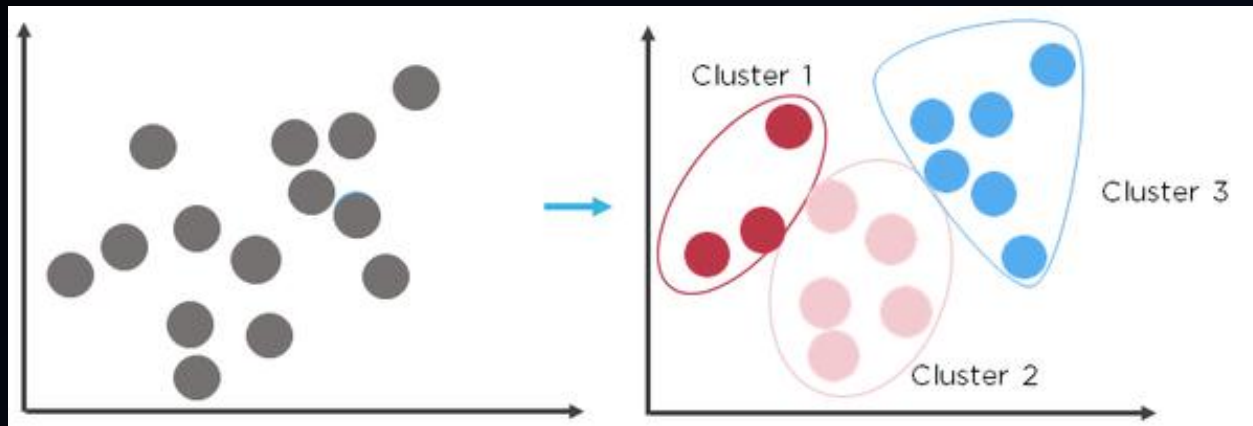
$$J = \frac{1}{n} \sum_{i=1}^n (\text{pred}_i - y_i)^2$$

$$a_0 = a_0 - \alpha \cdot \frac{2}{n} \sum_{i=1}^n (\text{pred}_i - y_i)$$

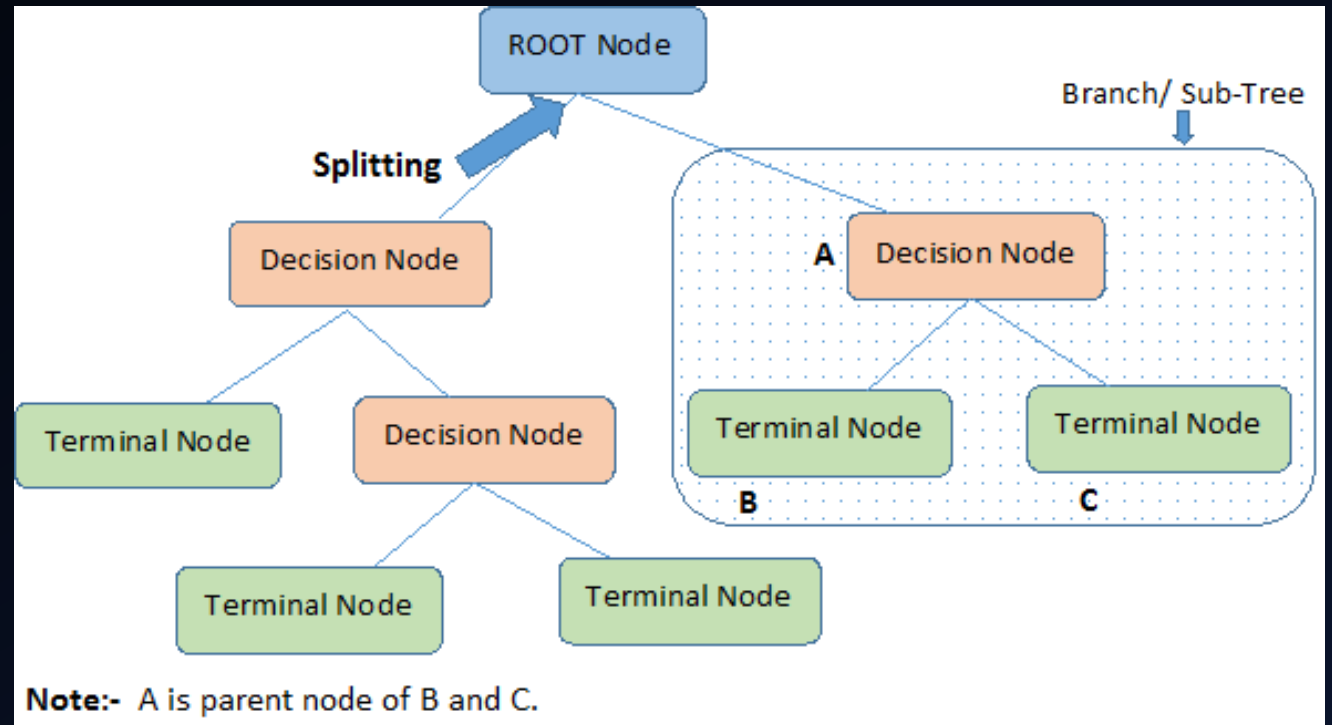
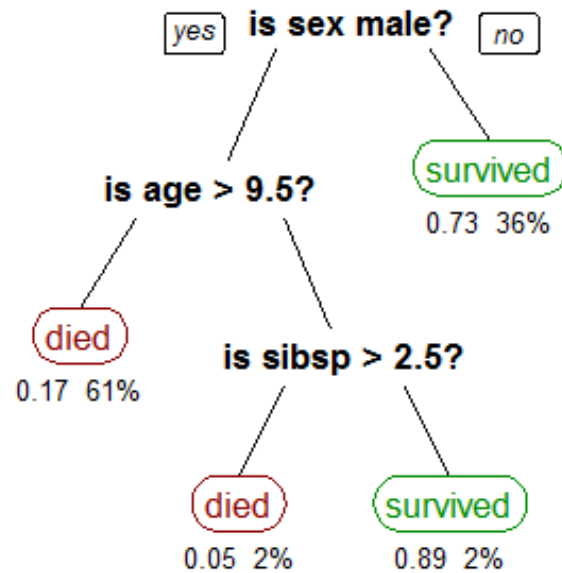
$$a_1 = a_1 - \alpha \cdot \frac{2}{n} \sum_{i=1}^n (\text{pred}_i - y_i) \cdot x_i$$



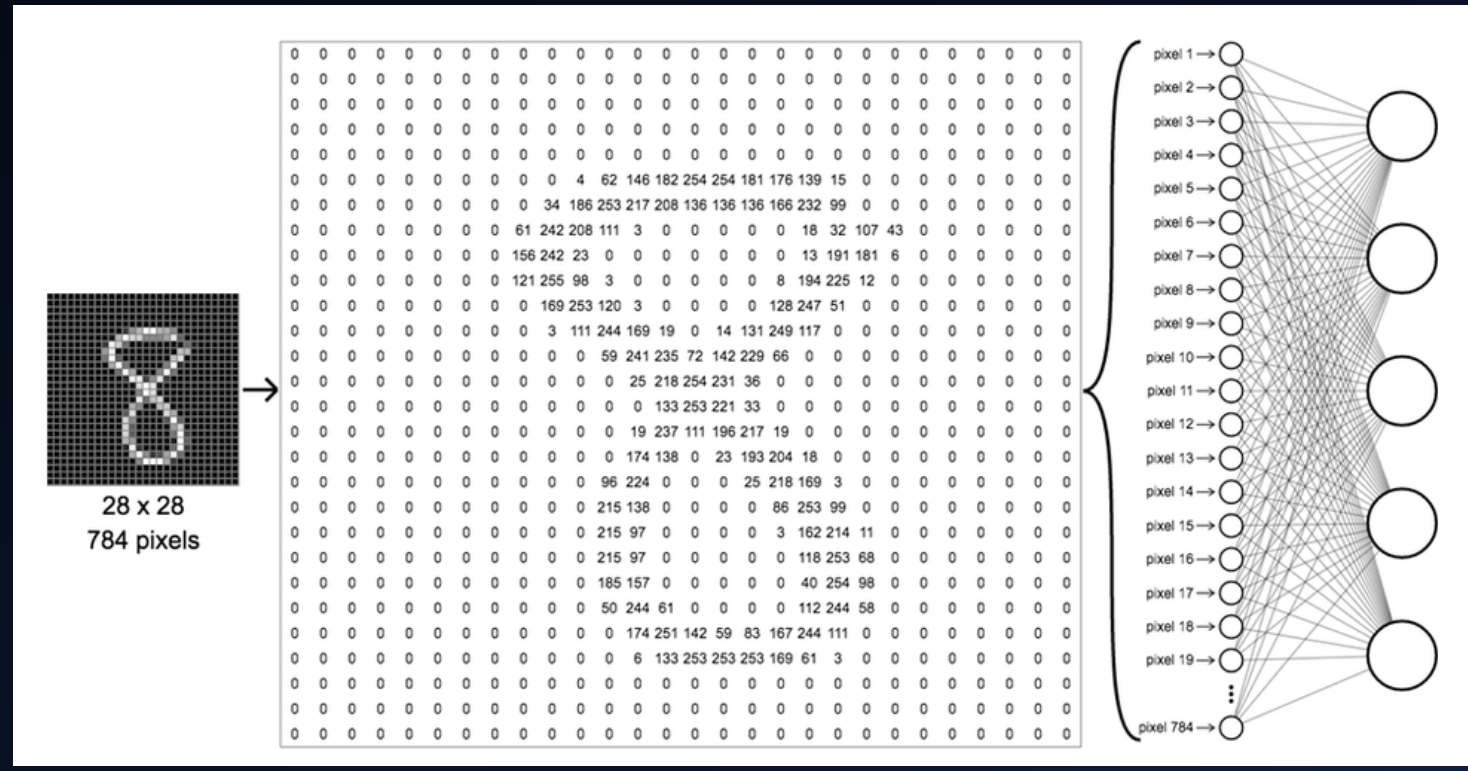
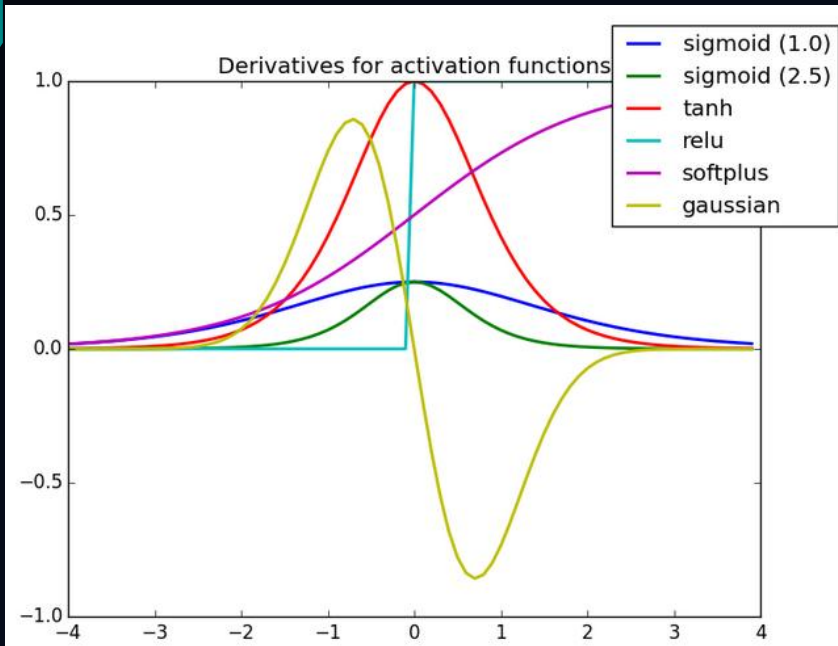
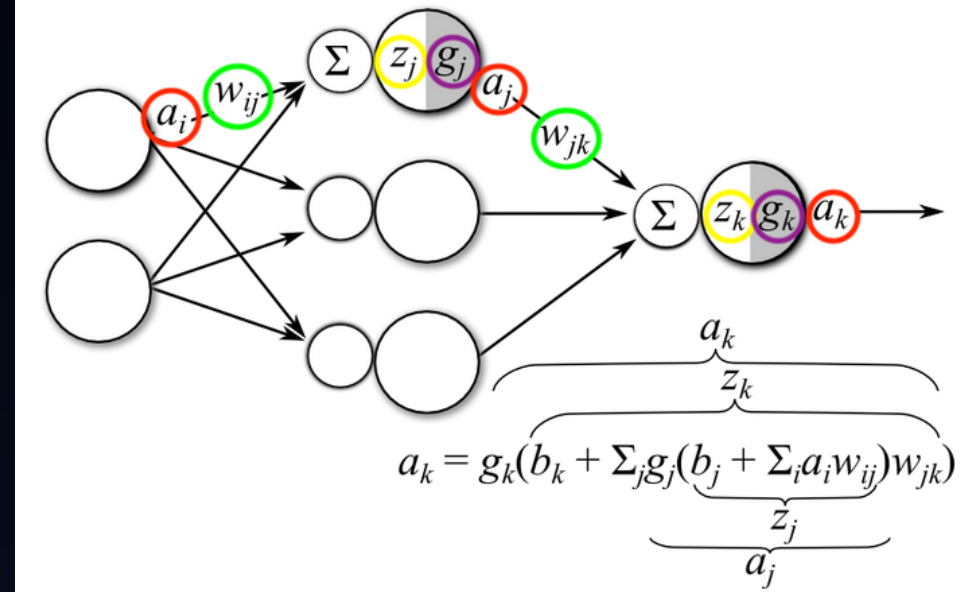
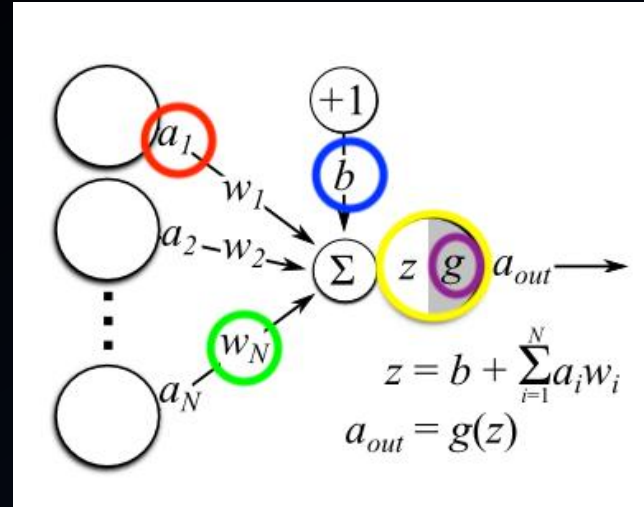
Clustering



Árvore de Decisão



Rede Neural



BigML e Colaboratory

