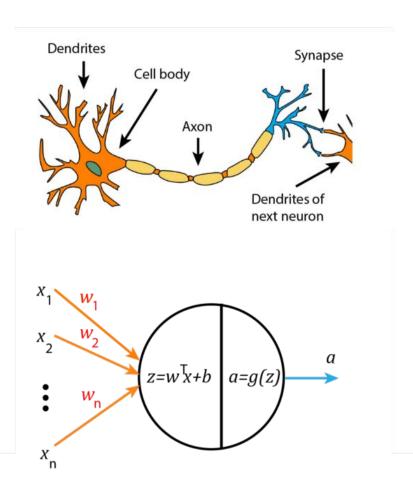
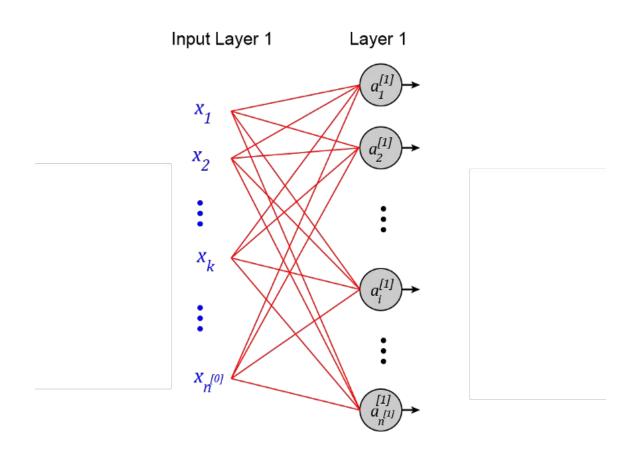
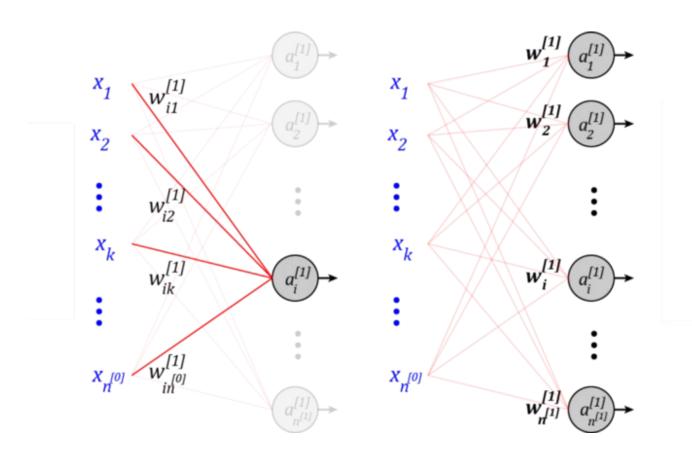
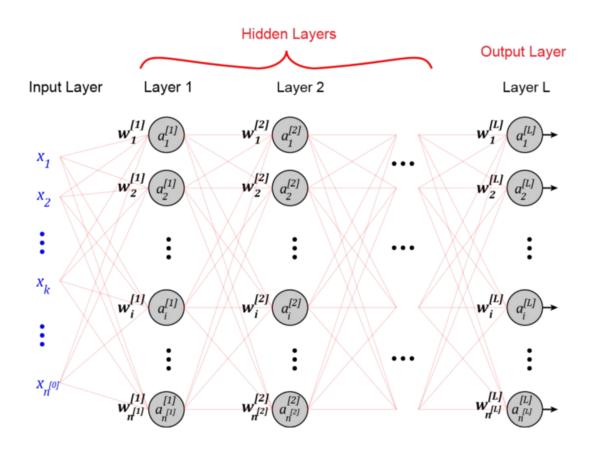
Neural Networks





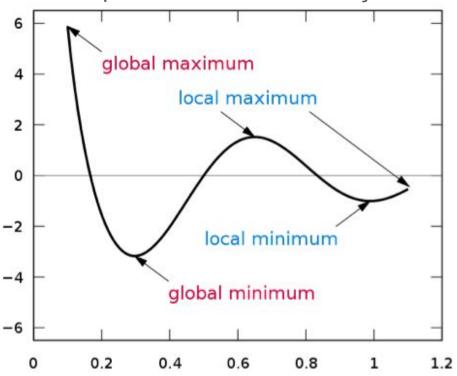


$$a_i^{[1]} = g^{[1]} \left(z_i^{[1]} \right) = g^{[1]} \left(\sum_k w_{ik}^{[1]} x_k + b_i^{[1]} \right) = g^{[1]} \left(\mathbf{w}_i^{[1]^T} \mathbf{x} + b_i^{[1]} \right)$$
 (55)



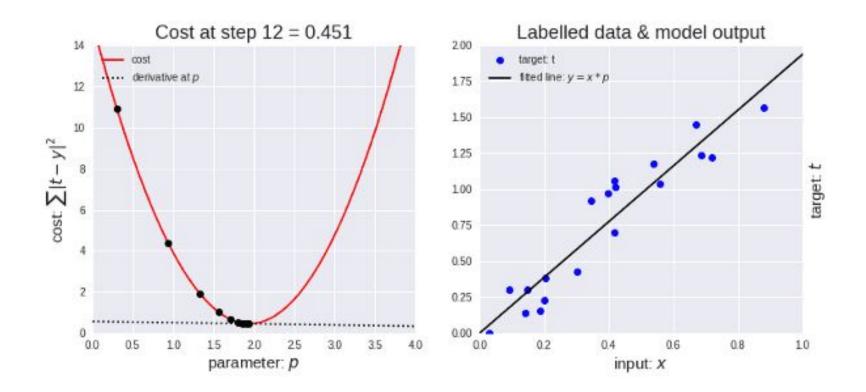
ANN - Gradient Descent

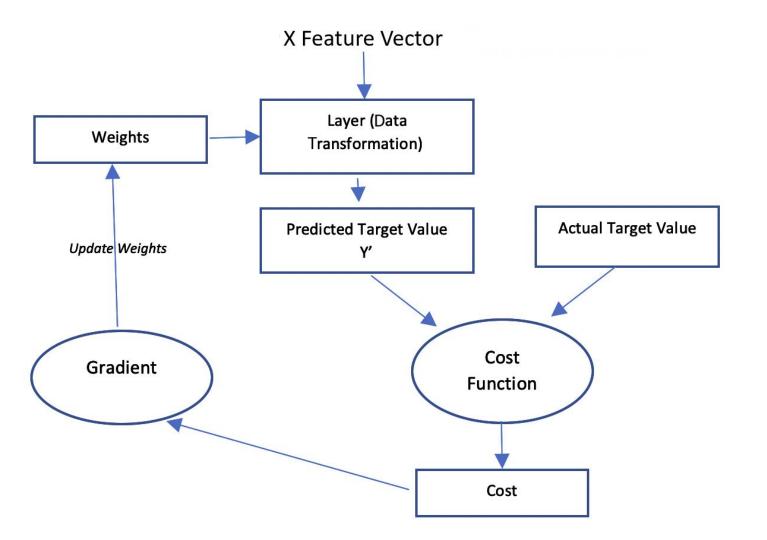
Método usado para achar os parâmetros de minimização da função custo (J)

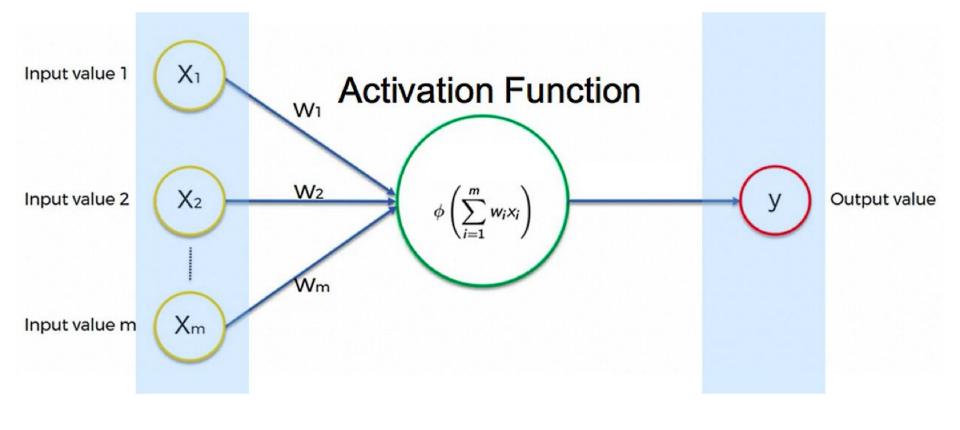


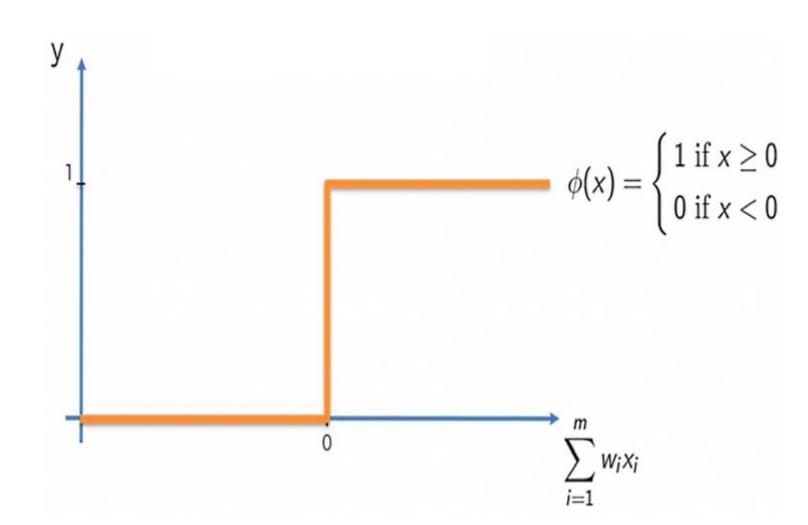
Gradient Descent

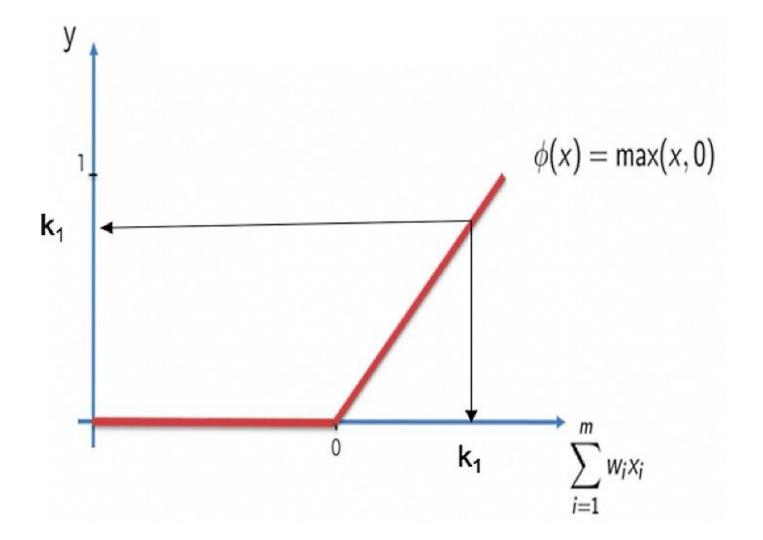


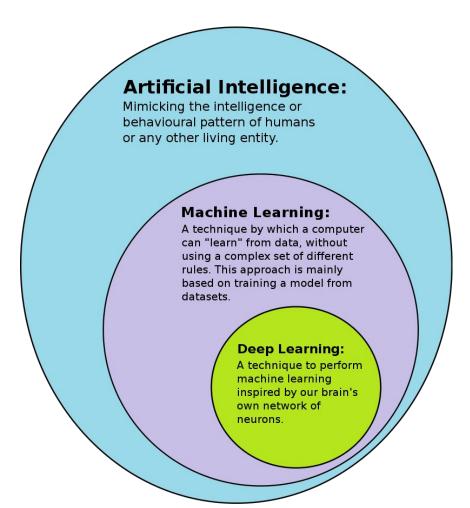


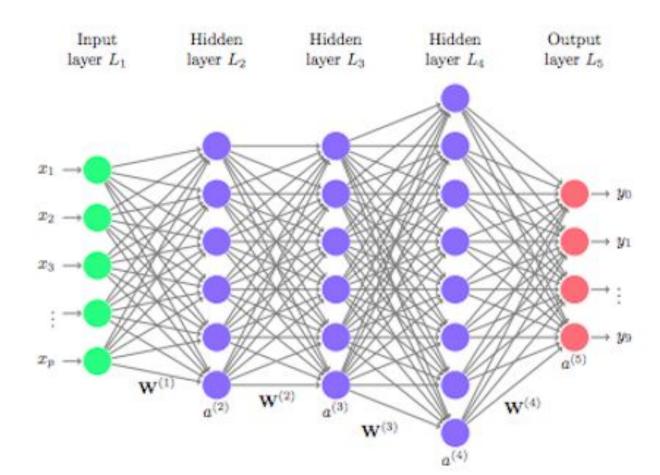


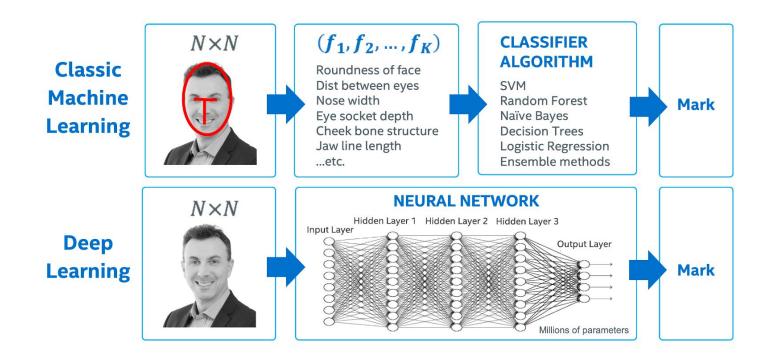






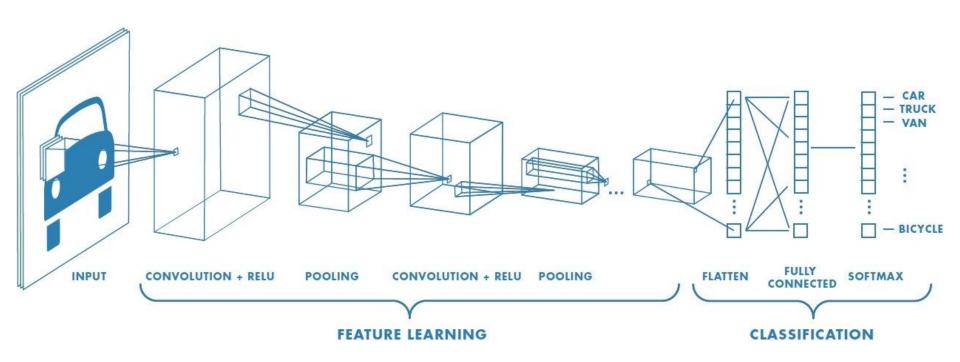






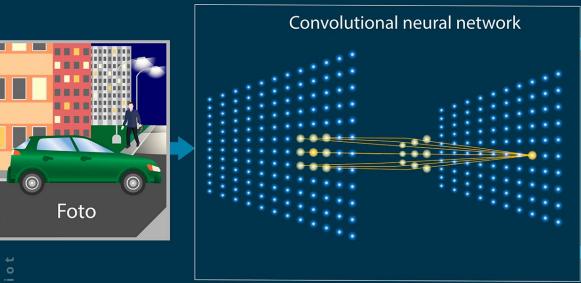
Redes Neurais Recorrentes

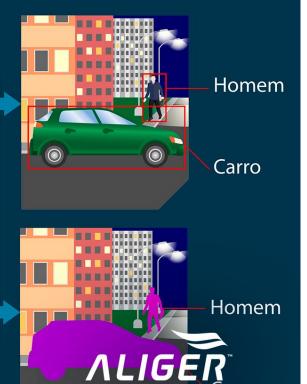
Redes Convolucionais



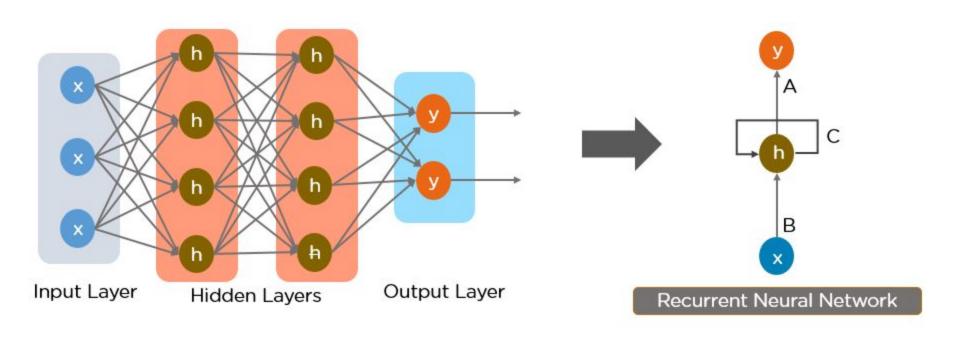
Detecção de objeto e segntação de instância

Rede Neural Convolucional

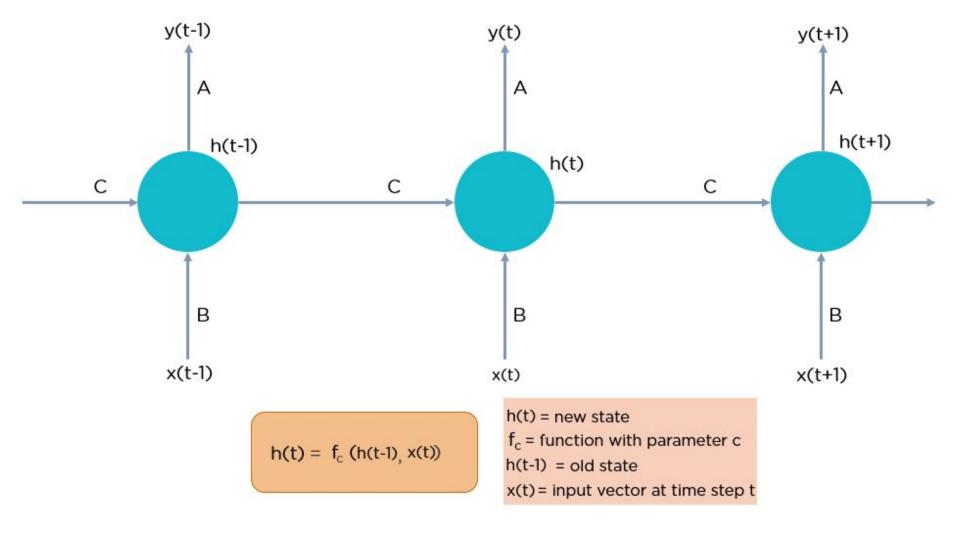




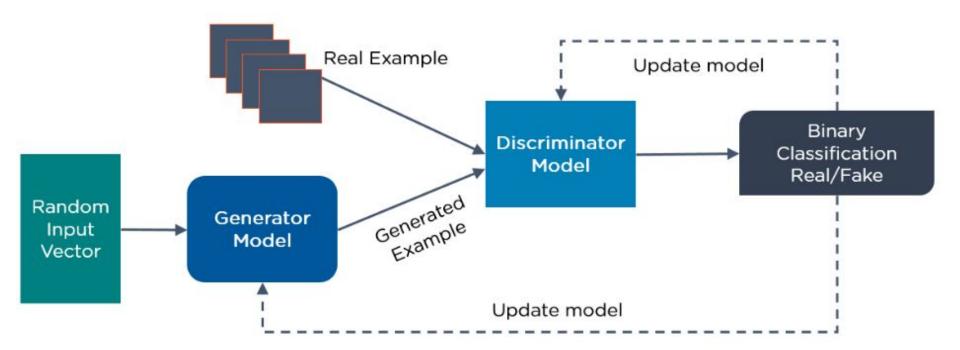
Carro

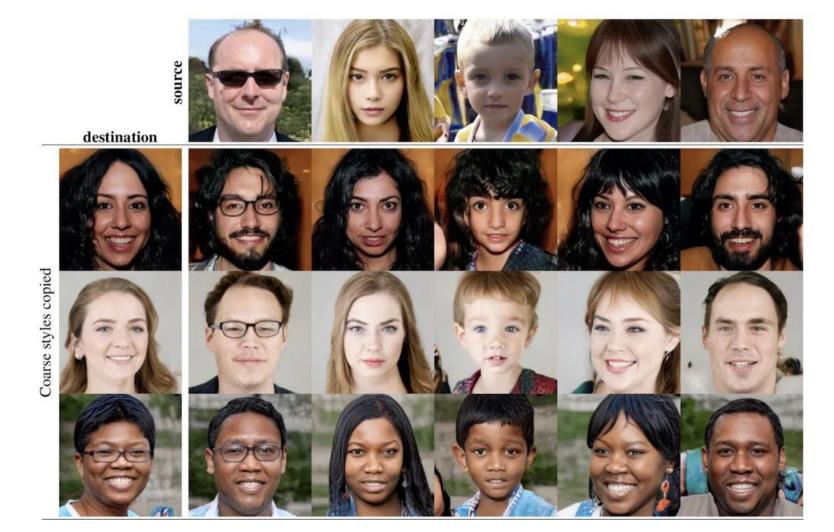


RNN -Redes Neurais Recorrentes



Generative Adversarial Networks (GANs)







1*0.1 + 2*0.2 + + 7*0.7 =

$$N \times M * M \times D =$$

0.7 0.6