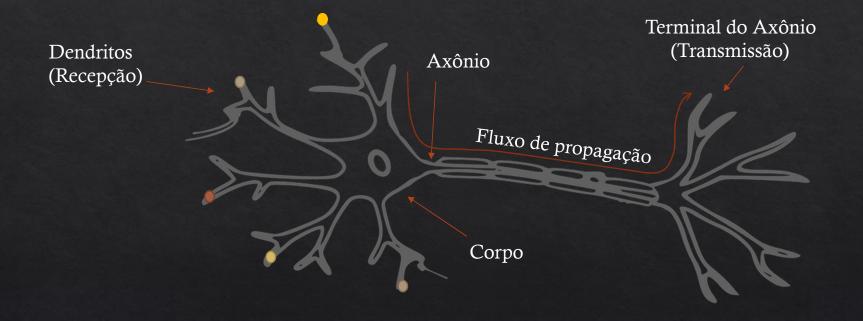
Cérebro





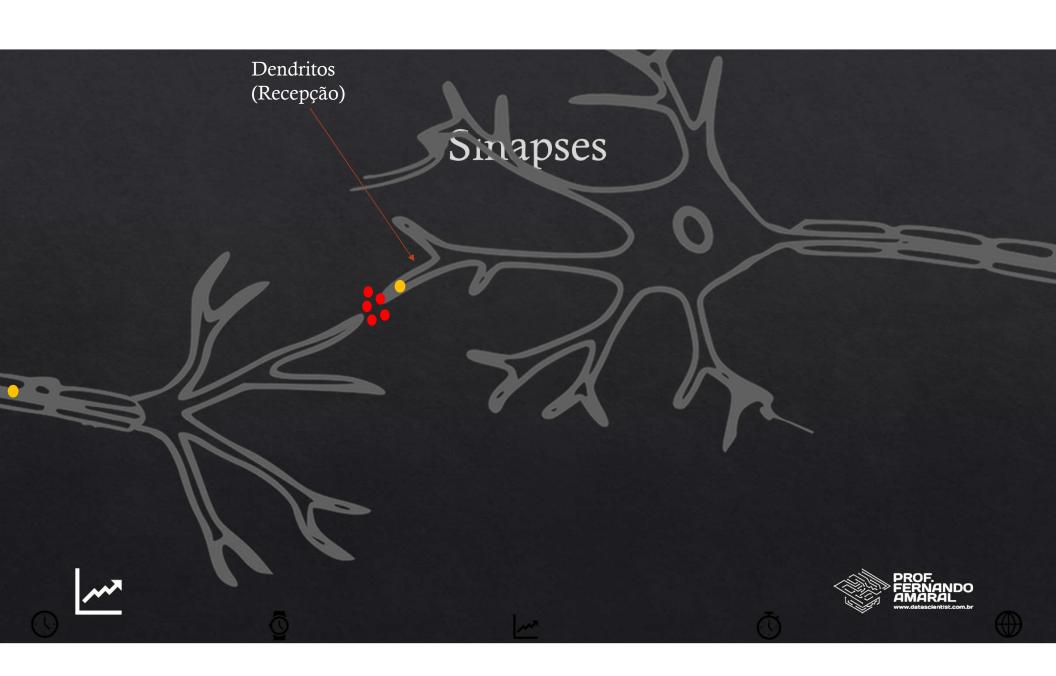


Neurônio



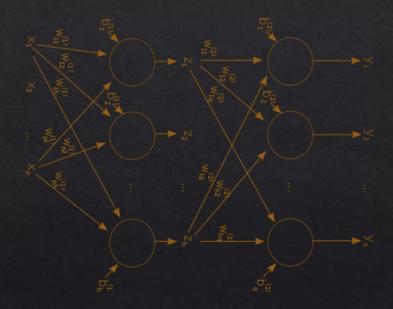






Redes Neurais Artificias

♦ Simular as redes neurais biológicas no computador







Perceptron

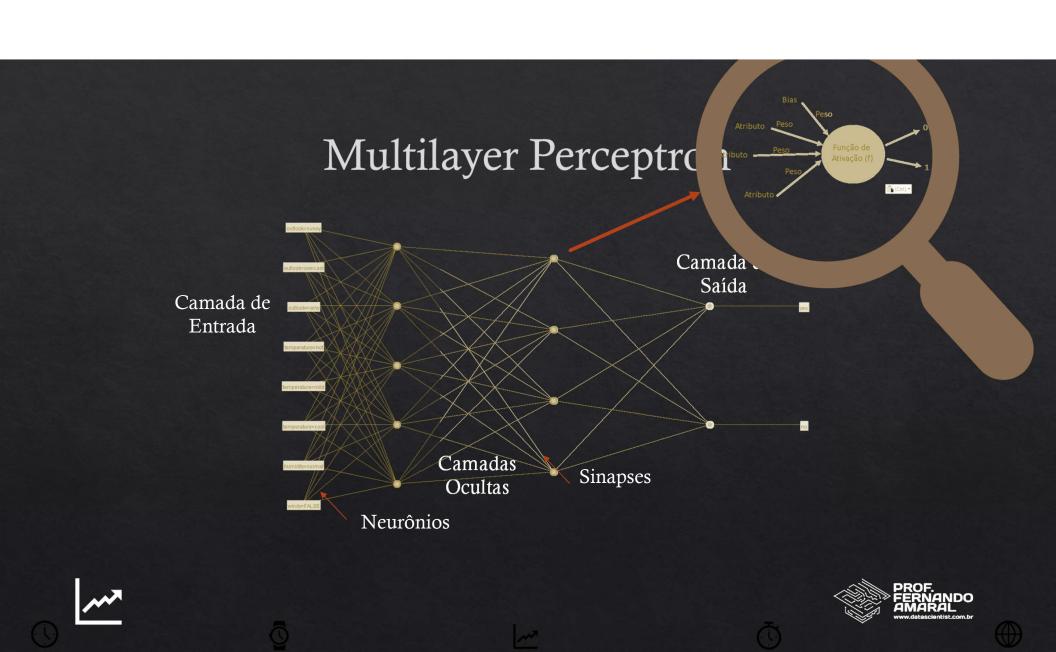


Se
$$f >= 0 = 1$$

Se $f < 0 = 0$







Topologia e Arquitetura

- > Topologia
 - > Estrutura de nós e camadas
- > Arquitetura
 - > Feed Forward
 - > Recorrente Retorno



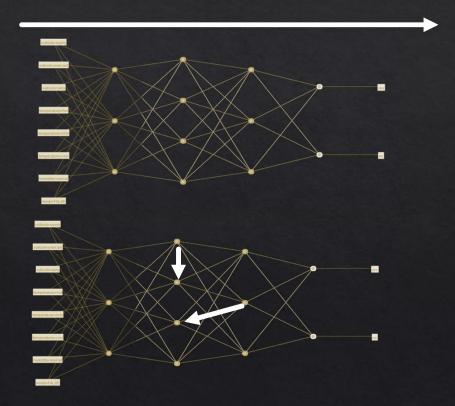


Topologia Coutookersonery Coutookersonery Coutookersonery Coutookersonery Comparative and Compar outcoln surror outcoln overs st dut coloration temperature not temperature not temperature not temperature not temperature not temperature not temperature not

Arquitetura

- > Feed Forward
- > (Alimentação para Frente)

- > Recorrente
- > (Biderecional)







Topologia

♦ Quantas camadas?

> Entrada: 1

> Saída: 1

> Oculta: n





Topologia

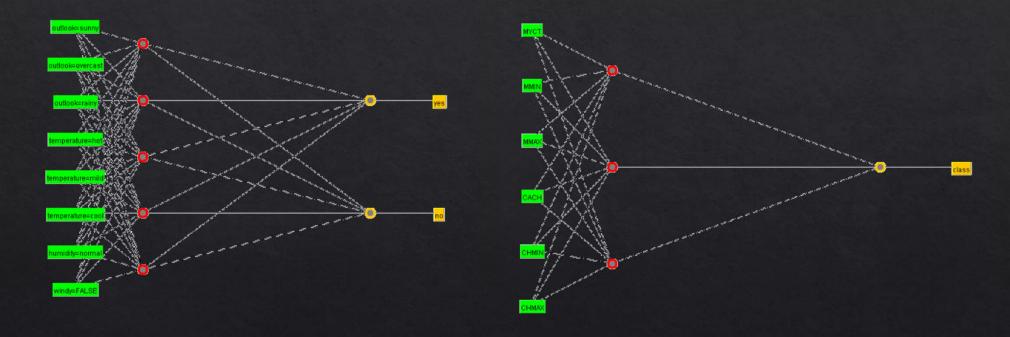
- > Quantos neurônios?
- > Entrada: Um para cada atributo / valor
- > Saída: Valores de Classes para Classificação ou 1 para Regressão

> Oculta:
$$\frac{a+a}{2}$$





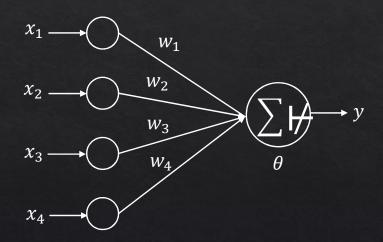
Topologia







Epoch vs Iteration vs Batch size







Deep Learning

