



Connecting Neuroscience and Machine Learning

Don't get Eaten by the Tiger

Neuroscience of Decision Making

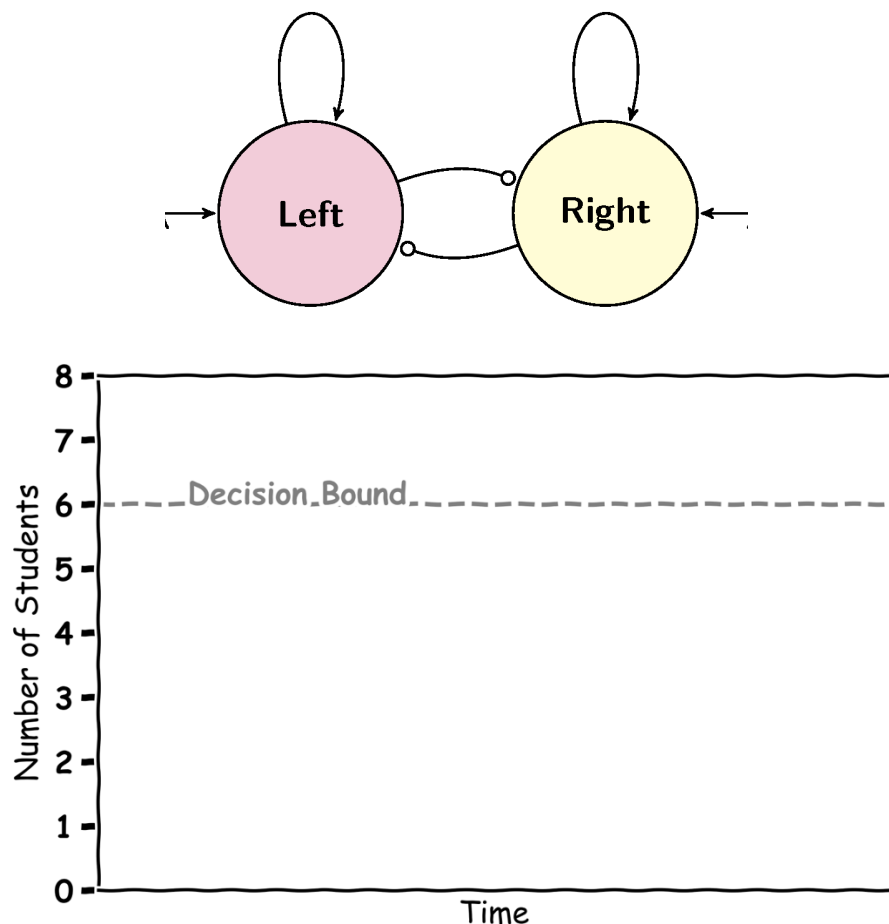
The Neuron

What is the basic **unit of information** for a neuron?

How do we **encode** it mathematically?

Two Populations of Neurons

Label the graph:



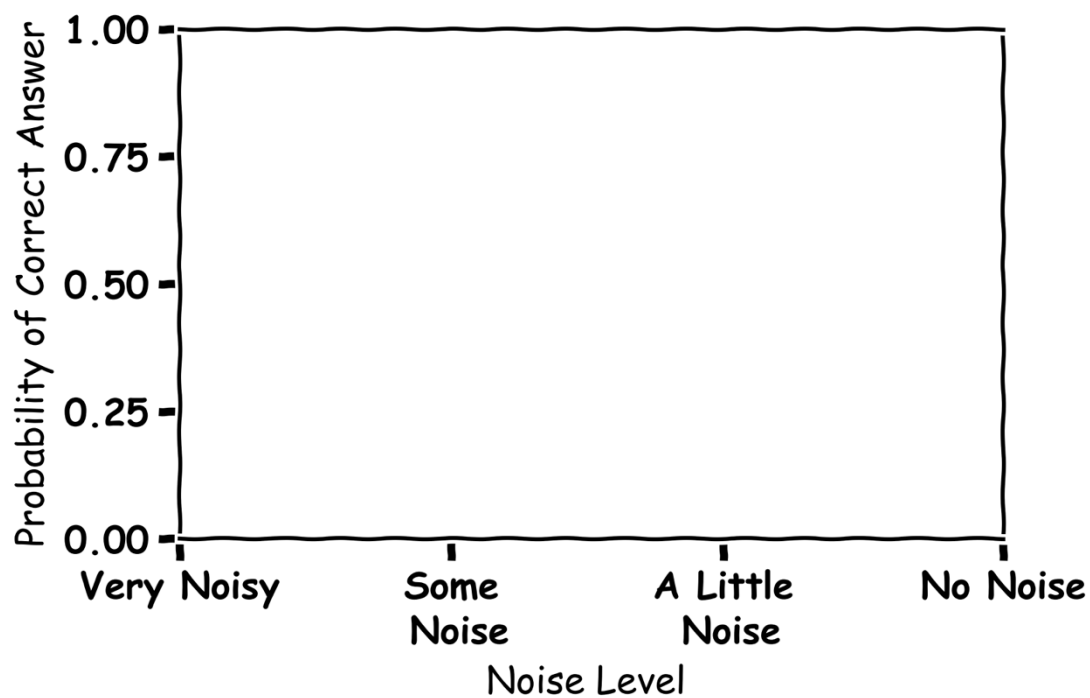


Making Decisions

Label the graph:

Where is the **50-50 chance line**?

Fill in the graph with your answers:





Machine Learning of Decision Making

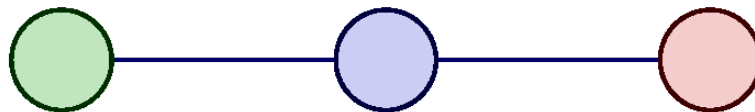
The Algorithm

What is an **algorithm**? Give an **example**?

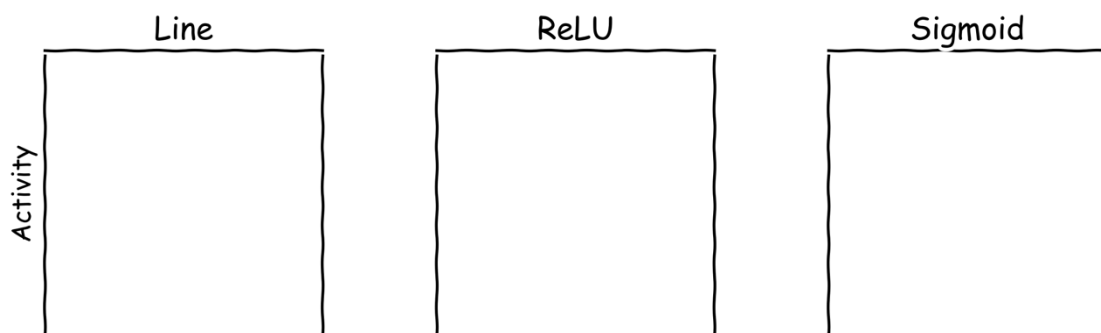
What is **Machine Learning**?

The Node

Label the graph:



Draw the **functions** could be used in a node and what are they good for?



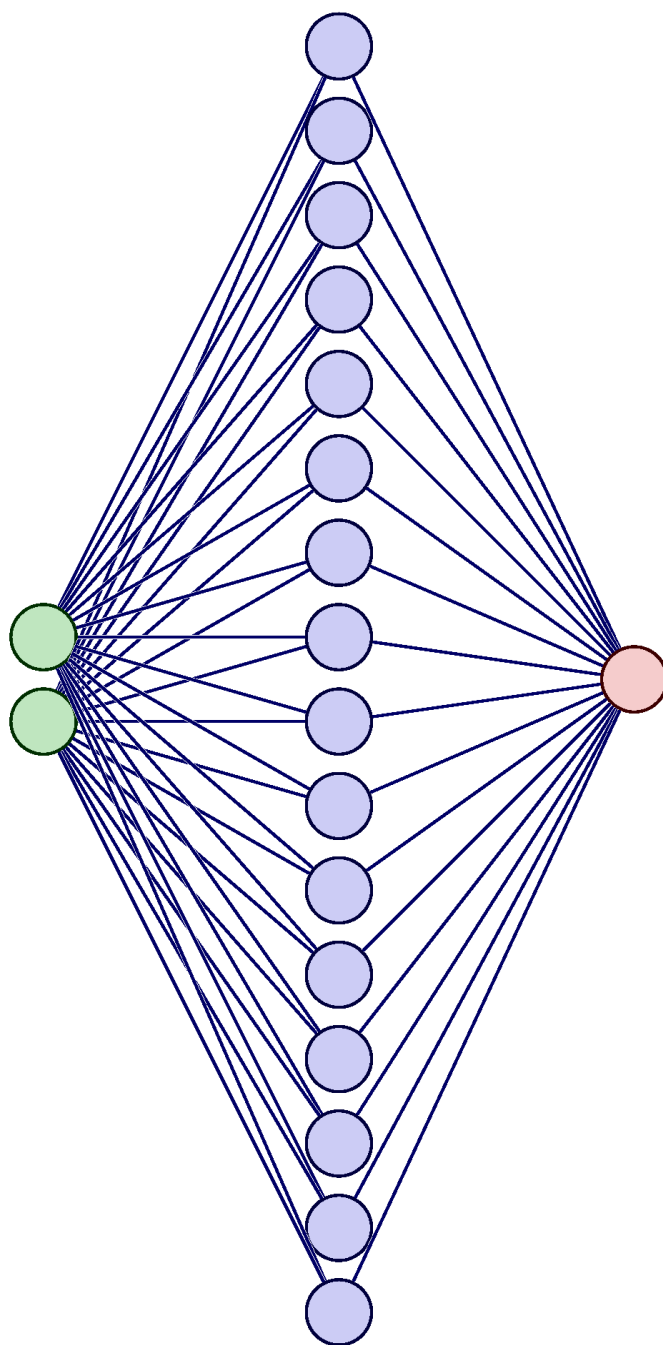
What does an **Artificial Neural Network** learn?





An Artificial Neural Network

Label the graph:



How are you **smarter than AI**?