Connecting Neuroscience and Machine Learning
Don't get Eaten by the Tiger

Neuroscience of Decision Making

The Neuron

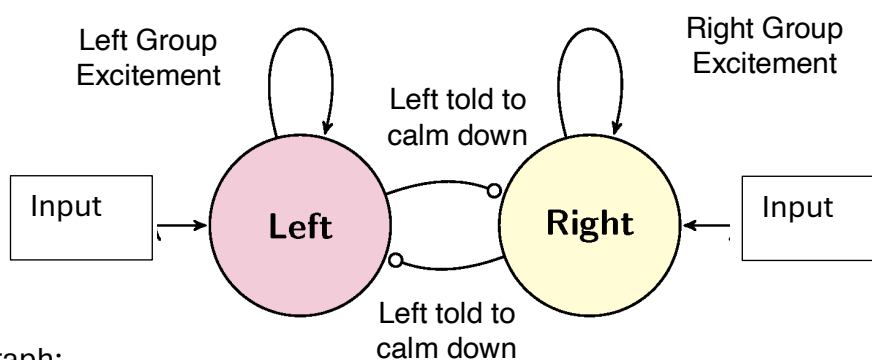What is the basic **unit of information** for a neuron?

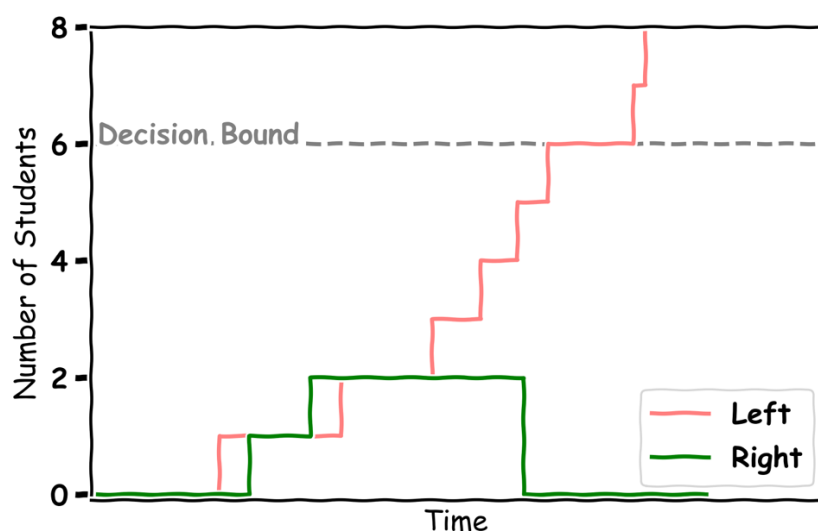Spike

How do we **encode** it mathematically?

0 or 1

Two Populations of Neurons
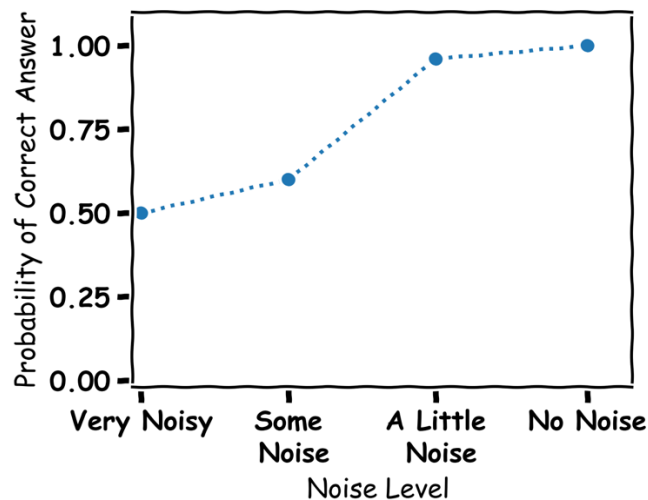
Label the graph:

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Making Decisions

Label the graph:
Where is the **50-50 chance line**?
Fill in the graph with your answers:

Machine Learning of Decision Making
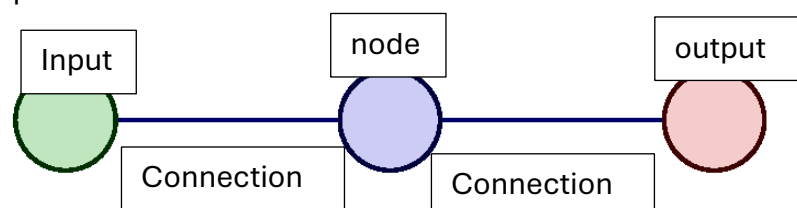
The Algorithm

What is an **algorithm (AI)**? Give an **example**?
An algorithm is a step-by-step set of instructions for solving a problem or performing a specific task.
Tik-Tok

The Node

Label the graph:

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

Weights (Connections) for Patterns

How are you **smarter than AI?**

I know what upwards motion is ☺

School of Mathematics and Statistics