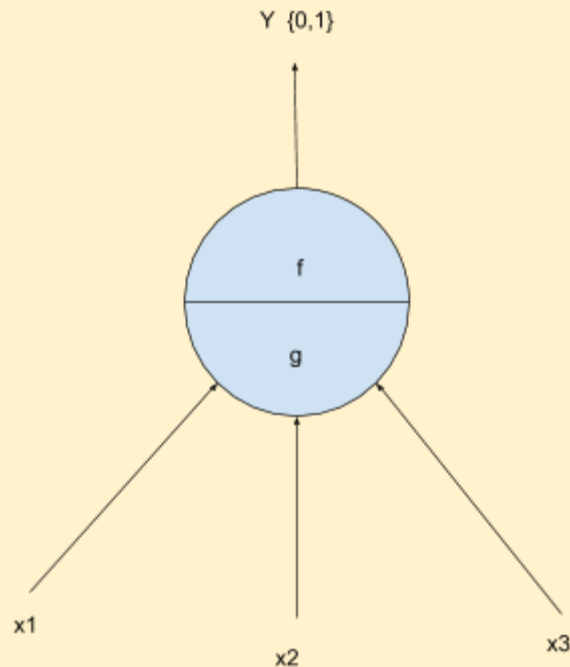


MP Neuron Model

What is the mathematical model?



1. Inputs belong to a discrete set of values $\{0,1\}$
2. g aggregates the inputs and function f takes a decision based on these aggregations
3. These inputs can be excitatory or inhibitory
 - a. $y = 0$ if x_i is inhibitory (outputs zero, sort of an override), else
 - b. $g(x) = \sum_{i=1}^n x_i$
 - c. $y = f(g(x))$
 - i. $y = 1$ if $g(x) \geq b$
 - ii. $y = 0$ if $g(x) < b$
 - iii. Where b is a threshold value
 - iv. b is a parameter, it is adjusted with the aim of maximizing the number of correct predictions