McCulloch Pitts Neuron, Thresholding Logic neroscients Logician proposed highly simplified computational of neyron. (1943) JE {0,1} - Roolean output · g arregnates the inputs and function of takes a decision based on this · if y=0; neuron doesn't fine if y=1; heyron fire 2 2, 2, " in e{0,1} - Boolean fuput. The Puputs can be Excitatory or Inhibitory, y=0 if any xi° is inhibitory, else g(x1, x2, ---, xn) = g(x) = \(\sum_{x1}^{n} \) if Inhibitory Proport is on, then invespective of be zero, means negrous will not fire. y= f(g(x))=1 if g(x)> 0 - Thresholding y= f(∂(x)) = 0 if g(x) < 0 - Parameter And the overall is carry Thresholding Logic.

Implement some Boolean Function using classmate This some Mccalloh Pitts (Mp) neuron of Date J= {0, L} (1) What i's 0 ? Ans!- y=1 if \$ \$ 3 8=3 0 A X, =1, X, =1, X, =1 J=0 if \$X3 Otherwise AND Function (2) y= {0,13 y=1 if 0×1 0=1 if \$ \$1 Otherwise. 420 OR Function y = {0,1} (3) 21 X2 1X2 YAND ! Xe Inhibitory. Pf on y= 1 if 8×2 0=1 XI AND IZZ y 20 Pf 8K2 Ofnewise. · Pn bow 2nd and 4th 22=1, so remove this row, and cheeks on and then checks, which has y=1 and by Applyony the original expression, then some up the Pempert and grys thre Buffort (0)





