Artificial Neural Networks (ANN)

Several cells

Neurons

action potential

Dendrite } inputs

Cell body

Axon

Node of Ranvier

Axon terminal — 0.015V, 0.024 V

0.025V <-- Axon -->

Schwann cell

myelin

nucleus

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x_1 w_1) 1 **Artificial Neuron.**

$x_1 w_1$ w_0

W is weight

Σ | $f(x)$

Squashing Functions.

Artificial Intelli⁻ w_2
Machin⁻ x_2 $x_2 w_2$
Deep Lear⁻.

$$y = x_1 w_1 + x_2 w_2 + w_0$$

Activation

$$S = f(y)$$

S

(0,0) → y

1 ⊙
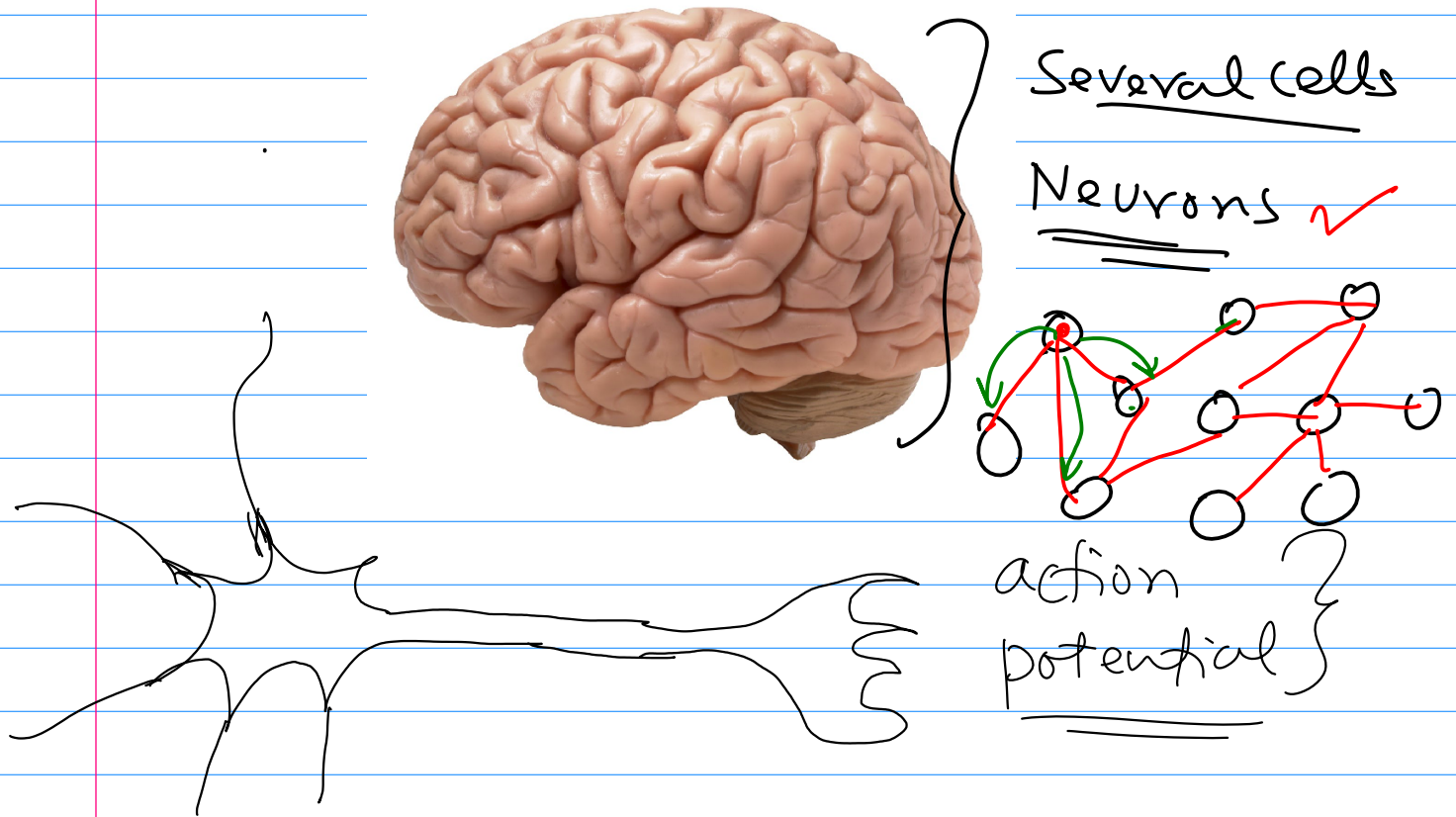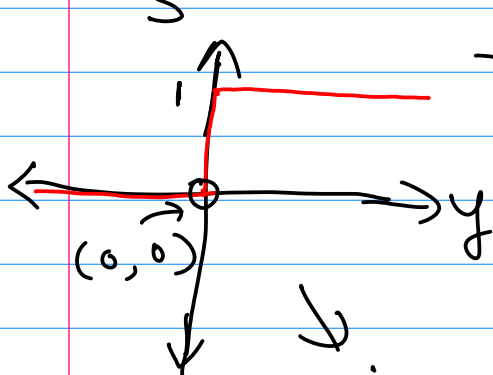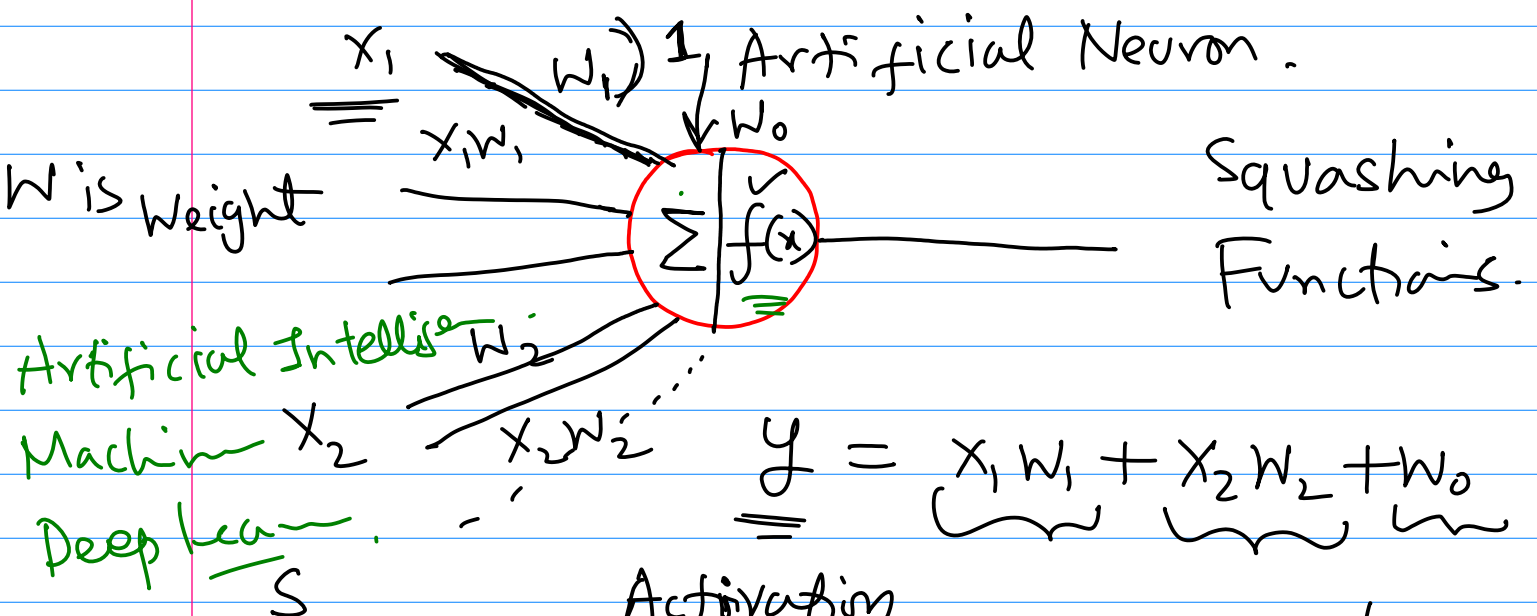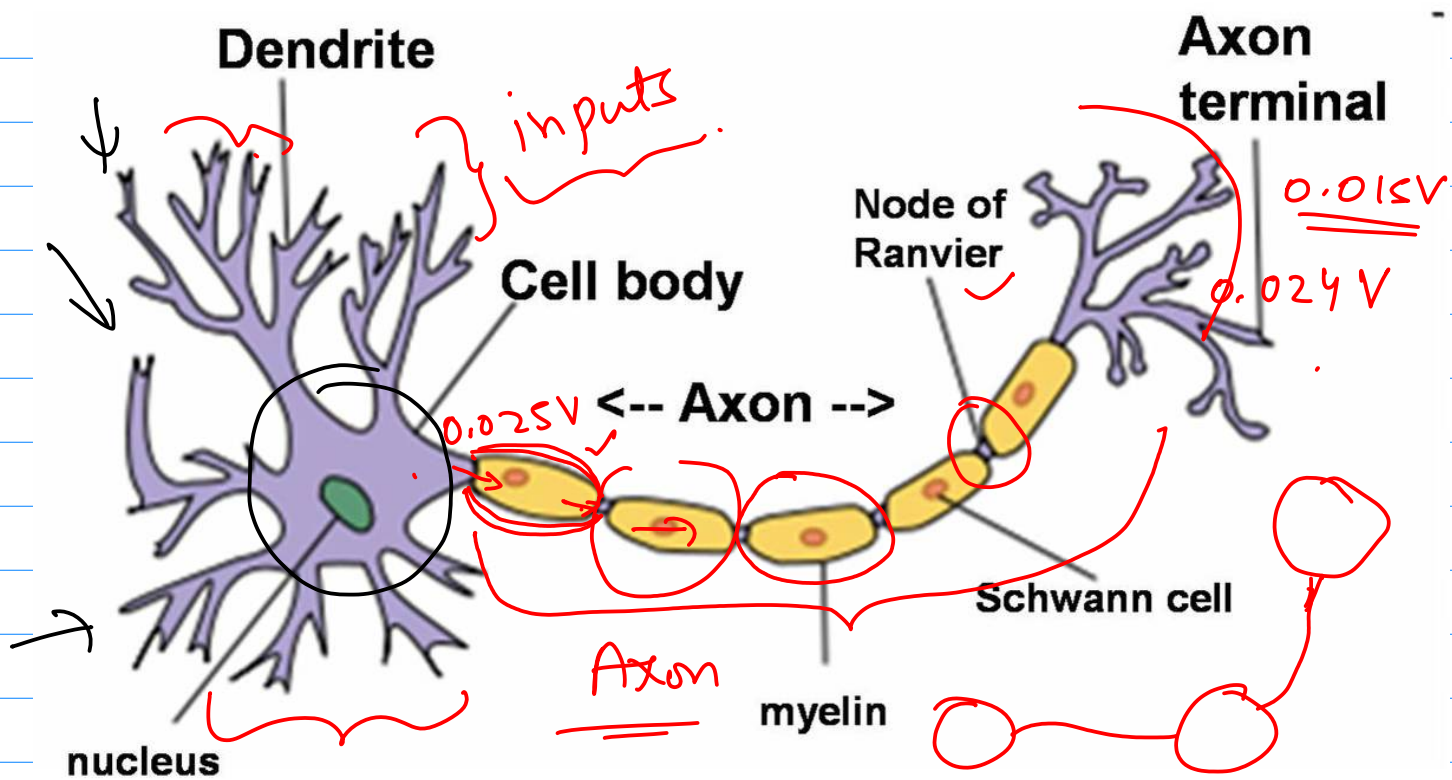
Binary Logic Threshold Neuron.