

~~ARTIFICIAL~~

~~NATURAL~~

Project 1

Pencil or Eraser?

(i) INPUTS (Weight, Scale)  
( $x^1$ ,  $x^2$ )

Weight - grams  
Scale - 1-10

(2, 7) - 1

(3, 6) - 1

(1, 1) - 0

(1, 2) - 0

(2, 1) - 0

(2) OUTPUT =  $y$  - be either 0 or 1  
Eraser Pencil classification

(3) - Includes

Weights -  $w$   
Bias -  $b$   
Learning Rate -  $\eta$