

Perceptron Learning - General Recipe

What is the typical recipe for learning parameters of a model

1. Consider the following data

Weight x_1	Screen Size x_2	Liked(y)
0.19	0.64	1
0.63	0.81	1
0.33	0.67	0
1	0.88	0

2. Randomly initialize parameters $w_1(\theta_1)$, $w_2(\theta_2)$ and $b(\theta_0)$
3. Iterate over data:
 - a. $L = \text{compute_loss}(x_i)$
 - b. $\text{update}(w_1, w_2, b, L)$
 - c. Repeat till satisfied, till zero loss or some defined value ϵ is reached.