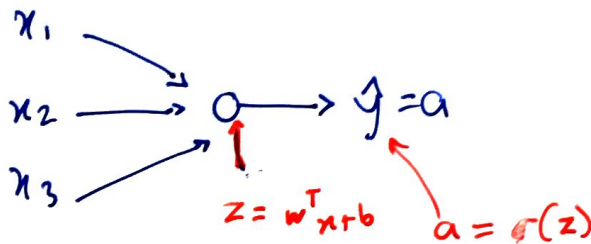


Neural Networks:

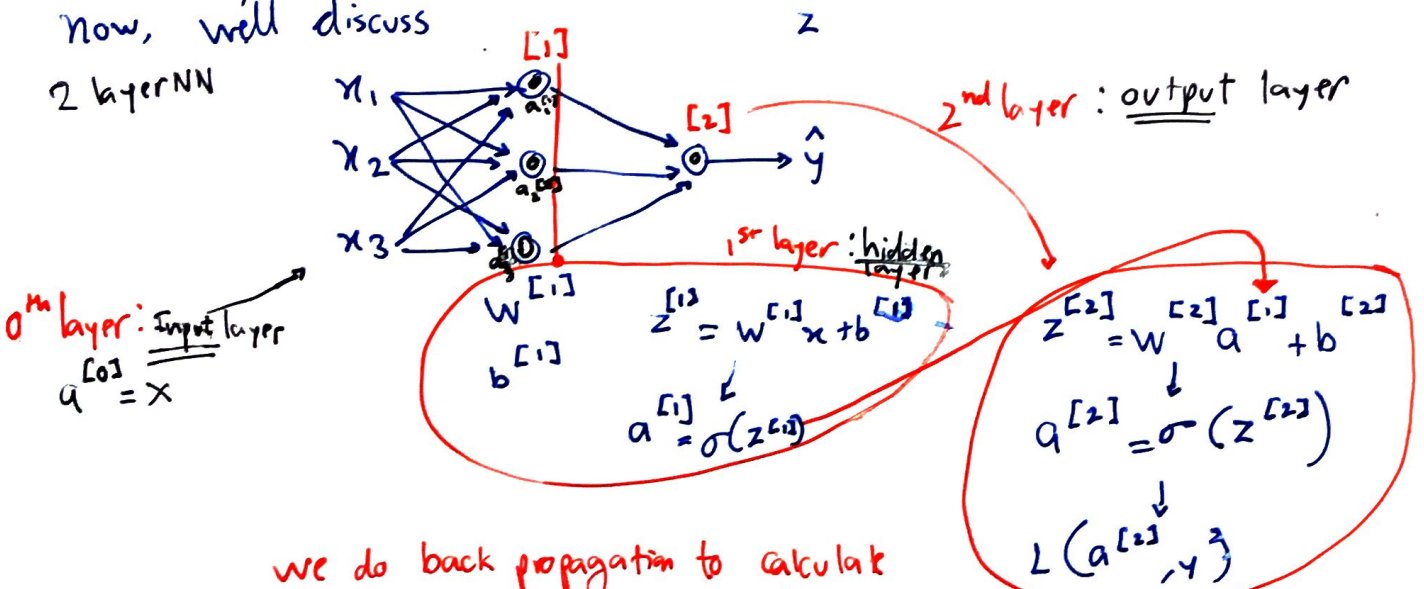
- Neural Networks are a set of algorithms, modeled loosely after a human brain, that are designed to recognize patterns.
- helps us cluster & classify.

previously, we saw:



now, we'll discuss

2 layer NN



we do back propagation to calculate

$$d a^{[2]} \rightarrow d z^{[2]} \rightarrow d w^{[2]} \rightarrow d b^{[2]} \text{ \& so on}$$

R \rightarrow L Back calculation

- NN \rightarrow basically take a logistic regression & repeat it twice.

Notation

$a_1^{[1]} \rightarrow$ 1st layer, 1st weight

$a_2^{[1]} \rightarrow$ 1st layer, 2nd weight