

Plan:

1. Non-linear hypothesis. Trying to understand the reason for the non-linear hypothesis.
 - a. Motivations
 - b. Brain-like approach
2. Neural networks. Creating models based on ideas artificial neural networks
 - a. Model representation
 - b. Vectorized implementation
3. Applications.
 - a. Examples
 - b. Multiclass classification. One-vs-all.

Questions:

1. Why we need yet another hypothesis function such as neural networks?
2. Which type of layers in of NN do you know and what's the difference between them?

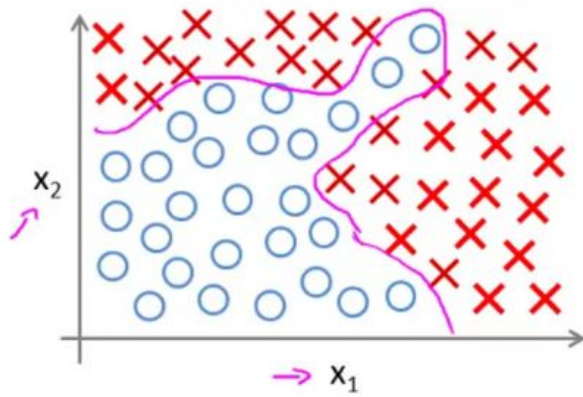
Glossary:

Unit - neural network node that represents one neuron in the layer

Layer - a group of separated units

Picture 1

Non-linear Classification



x_1 = size

x_2 = # bedrooms

x_3 = # floors

x_4 = age

...

x_{100}

Picture 2

