

Elevation pitch

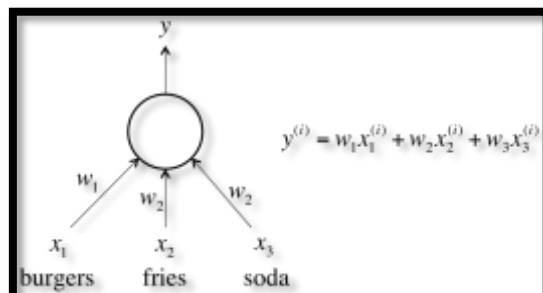
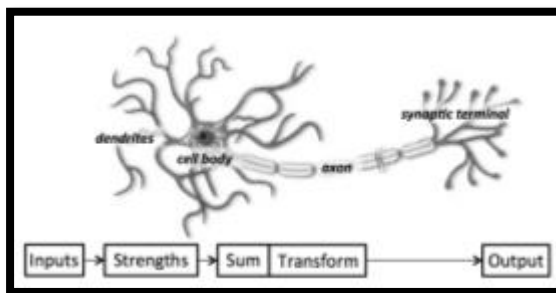
The aim of this abstract is to explain and add more information about the scope presented as Elevation Pitch for the subject "Communication Skills". Through this lines we will see a brief review and applications of Machine Learning and Deep Learning.

So far, we can say that machine learning is inside the computer engineering, more specific field called AI or Artificial Intelligence. But, what is it? Is a way or method developed to teach a machine using examples, in order to develop some patterns or guideline from a preliminary instructions (algorithm) and let the machine learn by himself, until reach accuracy results and reasonable output.

How this happens? The main key or hinge let's say are the examples, or more technical word "big data". This data plays the most important and weak point, where we need to label each information in order to introduce it inside the computer. Is like teach children's the colors, isn't it?



The way that the instructions are introduced on the machine it has a specific architecture that are related with neuronal net, based on layers.



The applications of this method can be used in many sectors and fields. We can start using the example of technology that we already know: google street view. As we know they capture many streets over the world, but how they can know exactly which number of that street is this building? Do they check each picture and somebody look the photo and add a label for the building? The answer is yes in some way, but instead of using people, they use Machine Learning, capable to read the number from the image (input) and decide which number is that building (output) and relate this information with the existing one.

To sum up, machine Learning is intelligence from Big Data, capable to make predictions and patterns from the information. In some cases more accurate than doctors in diagnostics.

Reference:

- <http://colah.github.io/posts/2014-03-NN-Manifolds-Topology/>
- <https://www.technologyreview.com/s/533596/smart-software-can-be-tricked-into-seeing-what-isnt-there/>
- <http://www.conscious-robots.com>