**Day 2**

**What to do?**

Learn about neural networks and how the brain inspired researches to create neural networks.

**Neurons:**

Though deep learning is all programming, it was inspired from biology. Our neurons have a remarkably interesting structure and surprisingly single neuron is useless - group of neurons that work together in our brain that is responsible for our actions. So why not mimic the brain's structure to build algorithms (like asked by Geoffrey Hinton)? To answer that question, you first need to understand the biology of brain.  
  
[**#deeplearning**](https://www.linkedin.com/feed/hashtag/?keywords=deeplearning&highlightedUpdateUrns=urn%3Ali%3Aactivity%3A6694386611418877953) :  
Basically, neurons "dendrites" receive the signals and pass along "axons" through connections called "synapses".  
  
I took time to understand the concept, honestly. Not a very easy concept to understand especially when neural networks are all about weights (synapses).  
  
When a neuron receives it input (signal) from preceding layer's neurons, the signals are multiplied with their corresponding weights and undergo summation, then pass onto an activation function (topic for another time maybe) to give an output.