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Research Article

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New Method for Neuro Cureness

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Abstract

In this paper, I proposed new idea for patients who have injured neurons in brain. Nowadays Neural Network and Artifitule Intelligence has been subject of many researchers to solve Neural Networks. By information of CNN and its theory it will be solved some questions about NeuroScience.

Keywords: Neurons, Brain, Machine Learning, Algorithm, Deep Learning.

1. Introduction

Some questions about NeuroScience and Cureness of some illnesses , in my Idea, by brain signaling , Machine.Learning and introduction sample patient who had cured by this subject will be solved

2. Materials and Methods

One of the instruments for this porpuse is doing Python Programming that is solution of work by theory of Machine.Learning(ML), CNN, Spark and other theories related.
Machine.Learning by Python Programming for Pathologists and investigate cancer in tissue is applicable, too.

Growth of Machine.Learning is in many branches such as computer vision, Robot Control, Medical Outcome Analysis and computational biology and in this article , I want to declare power of ML in cureness of brain illnesses.
Types of ML would be firstly, unsupervised learning, secondly supervised learning and thirdly, Reinforecement Learning.
The type that will be used in this paper, is based on Algorithms that is supervised learning .
Some classifications of ML are support vector machine (SVM), K.nearest neighbor
(KNN), Neural. Network and Deep.Learning.
There are three classes of Neural.Network Architecture .
Firstly, single.layer , feed.forwarded and secondly multi.layer feed.forward and finally Reinforcement.
Thearchitecture of neural nerwork is linked with learning algorithms used to train such as brain to get normal behaivor.
Astandard architecture of Network is firstly, input units,secondly, hidden units and finally output units .
For design of a Neural Network , we have various types of Nervous, and various types network architectures.

3. Various Type Learning Algorithms and Applications

Deep.learning in my idea, can be usea for Neural Language Processibng, also Computer.Vision and Image Processibng and … .
There are tools for deep.learning such as CAFFE, THENSOR, TORCH, FLOW(Python, C ++) and … .
CNN is convolutional neural networks .

4. Neural Signalling

The brain is adapted at information about body and its environment. Such information must be proceeding within illnesses, also it can be stored as memories that endure for years.Neurons perform this function by generating electrical and chemical signals. These signals are generated at synaptic connections between nerve cells.

The cellular and molecular mechanism this unique signaling abilities are targets deep poisenes that compromise the function of the nervous system Function of the nervoussystem neurvos employ several different types of electrical signals to encode and transfer information.

The voltage clamp technique is an electrical feedback method that allows control of neurons membrane potential and, simultanteosly, direct measurement of the voltage dependent fluxes of Na+ and K+ that produce the action potential.
The flow of Ions through single open channels can be detected as tiny eelectrical currents, and the synchronous opening of many channels, generate the macroscopic currents that produce action potential and other elecgtrical signals.

5. Machine Learning Systems

Yes, there are many cases for ML waiting to be explored : in healthcare , farming, even in transportation and … .

Algorithms are a part of an ML system in production. Figure 1 shows different coponents of an ML System.

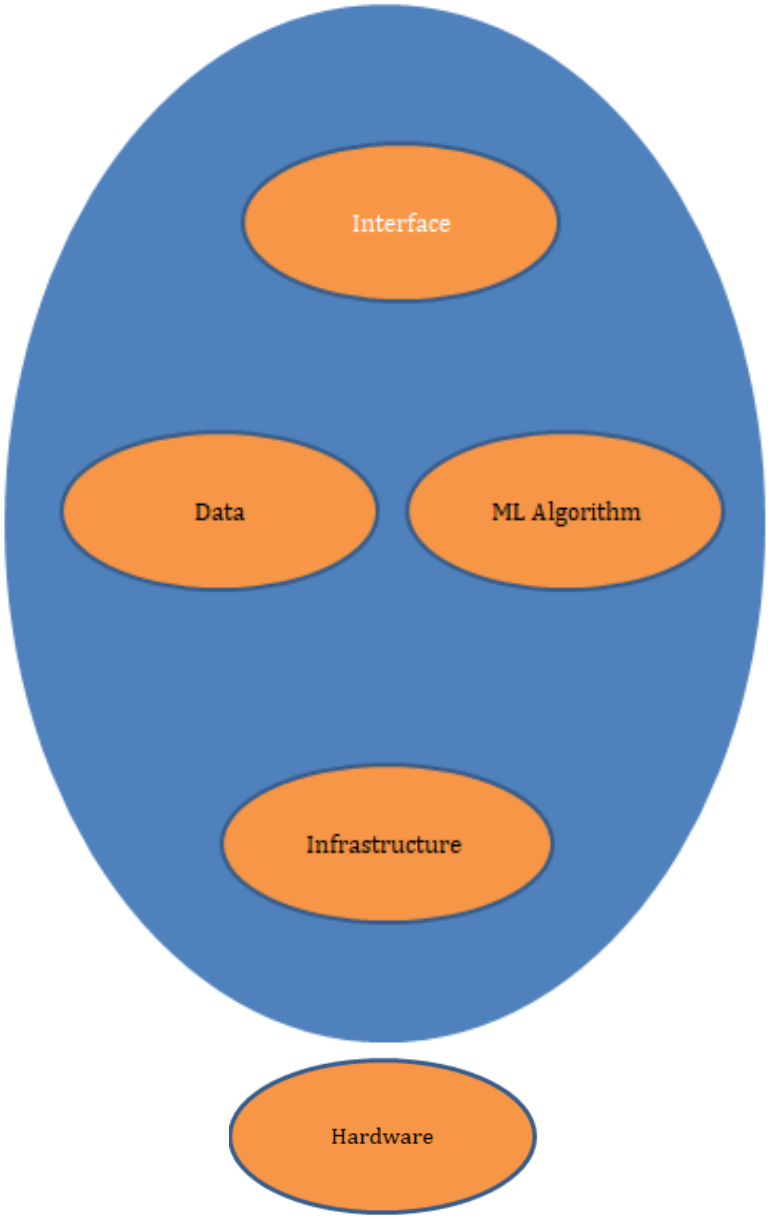

Figure 1: Different Components of an ML System

As it can be seen in Figure 1 , hardware learns dat by algorithm to the system . In my openion , for patients who have disorder in brain neurons electrical signals, by dataes that has been get from a healthy brain , and ML Algorithms , it can be learn patients in to get healthy state. Training Data still forms the foundation of modern MLA lgorithms, most ML Algorithms can be used in this porpuse , in my idea, will be supervised ML Algorithms.

6. Deep.Learning

Neural Network is a network of interconnected of interconnected neurves. Neurons can be biological (that there is in human brain) or Artifitual. Some forms of Neural Networks cannot be mapped to function of human brain and biological Neurons, because biological Neurons have only two output: on and off.

6.1. There are three main components :

1: Th dandrits that receive the input signals,
2: The cell body where the signal is processed in some forms,
3: The tail-like axon through which is transform the signal out to the next neurons.

The goal of all supervised machine learning algorithms is to best

estimate target function(f) that maps input data(X) onto output ariable(Y).

Different algorithms will be used to form machine larning from X to Y.

Common algorithm by using gradient descent are Linear Regression and Logestic Regression. Neurologists have long recognized that patients who suffer injuriesin brain region can be covered a repair in brain neurons. In some sampels , we applied this category and 80% of brain got healthy state in patient.

7. Conclusion

There are types of Neural Repair, but in my openion, signaling of healthy brain towarddamaged brain neuros by help a algorithm that we leant in before lines for machine learning is a method to injured neurons to recover themselves. It means by mapping of healthy brain signals to patient we behave machine.learning for injured neurons to get healthy [1-4].

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Competing Interest

"The auther declare competing Non.Financial Interests and following Competing Financial Interest to this Research."

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