

THE POSSIBILITY OF EXISTENCE OF LIFE AFTER DEATH

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ABSTRACT

The human intelligence has the ability to learn and this could be termed as process of learning. Boltzmann machine is a step towards deep learning process of artificial Neural Network in the field of artificial intelligence. An analogy of this artificial intelligence is being presented with the thought of human being. The communication of flow of thought in a form of energy among human beings in the present life and during previous lives makes us to think about existence of life after death.

Keywords: Boltzmann network, Thought Annealing, Life and death.

I. INTRODUCTION

In General, we think of an idea and try to make a system keeping in mind about its ideal conditions and also we expect that the proposed system should behave like ideal one. For example in the area of artificial intelligence, Scientists and researchers are trying to build a system which behaves like human brain.

In this article it is trying to say that we have an artificial learning algorithm as Boltzmann machine, which is invented to take input and learn itself to predict the result correctly, same as human, for example when a human eye see a cat as an input to human brain and human brain process itself to tell that it is a cat. Generally we imitate to build a system same as already existing natural (i.e. God gifted) things so as to behave like natural one. A man made aeroplane is an example of the birds in the nature. Human belief system works on the principle that we do not believe till we see an object, it means we believe only when we see the object, otherwise possibility of believe is negligible/nothing. This paper is written keeping in mind of human belief system and try to co-relate with artificial concept of learning as in Boltzmann machine to natural believe system in order to show that there is possibility of life after death.

In the section2, analogy with artificial intelligence, in the section3, the energy and probability concept, in the section4, the diagram of Boltzmann network model. Section5 and section6, describes the description of the Boltzmann network and flow of thought examples at a glance respectively, whereas section7 describes the thought annealing in human life, section8 explains the death and Hinduism and section9 for conclusion and discussion.

II. ANALOGY WITH ARTIFICIAL INTELLIGENCE

In the field of artificial intelligence, an initial step towards learning process of deep learning is Boltzmann machine. The learning process of Boltzmann machine is being considered same as the processing happens in the universe for the thought to thought communication among human being. The units in the visible layer as shown in figure 1 represent human body (mind and soul are included) on the earth. These visible units are represented by X1, X2 and Y. Among these visible units, X1 and X2 represent the input units and Y is to represent the output unit. The units in the hidden layer represent mind and soul, which are not visible but they contribute for the process of learning in human brain. The hidden unit is represented by H. The connectivity between units shows that the strength of thought communicated.

III. THE ENERGY [6] AND PROBABILITY OF A HUMAN BODY'S STATE

The Total Energy (ΔE) of the system = $-\sum_{i < j} w_{ij} s_i s_j - \sum_i \theta_i s_i$ (1)

Where w_{ij} = the strength of thought between human body j & human body i

s_i = state of human body i, $s_i \in \{0, 1\}$

θ_i = the bias of human body in the energy function.

($-\theta_i$ is the activation threshold for the human body.)

$w_{ij} = w_{ji} \forall i, j$ (i.e. All connections are symmetric.)

The difference in the energy that results from a single human body i being 0 (off) versus 1(on), written $\Delta E_i = \sum w_{ij} s_i s_j + \theta_i$ (2)

This is expressed as the difference of energies of two states:

$$\Delta E_i = E_{i=off} - E_{i=on} \quad (3)$$

ΔE = Flow of thoughts (i.e. difference between one thought to another)

The property of Boltzmann distribution i.e. the energy of a state is proportional to the negative log probability of that state [1].

$P_{i=on}$ = The probability of flow of thought starts

$P_{i=off}$ = The probability of no thought

$$\Delta E_i = -K_B T \ln(P_{i=off}) - -K_B T \ln(P_{i=on}) \quad (4)$$

Where K_B = Boltzmann constant ($K = 1.38 \times 10^{-23}$ J/K) and is absorbed into the artificial notion of temperature T.

Where T = the thought of anger, greed, hate, desires etc.

$$-\frac{\Delta E_i}{T} = \ln(P_{i=off}) - \ln(P_{i=on}) \quad (5)$$

$$\ln(P_{i=off}) = \ln(1 - P_{i=on})$$

$$-\frac{\Delta E_i}{T} = \ln(1 - P_{i=on}) - \ln(P_{i=on})$$

$$\ln \frac{1 - P_{i=on}}{P_{i=on}} = -\frac{\Delta E_i}{T}$$

$$\frac{1}{P_{i=on}} = 1 + e^{-\frac{\Delta E_i}{T}}$$

$$P_{i=on} = \frac{1}{1 + e^{-\frac{\Delta E_i}{T}}} \quad (6)$$

IV. USING BOLTZMANN MACHINE FOR XOR [3] PROBLEM FOR A NETWORK

An information-theoretic measure between the Boltzmann machine network model and the environment is given by G [1].

$$G = \sum_i P(V_i) \ln \frac{P(V_i)}{P'(V_i)} \quad (7)$$

Where $P(V_i)$ is the probability of the state of human mind when their states are determined by the environment, and $P'(V_i)$ is the corresponding probability when the network is running freely with no environmental input.

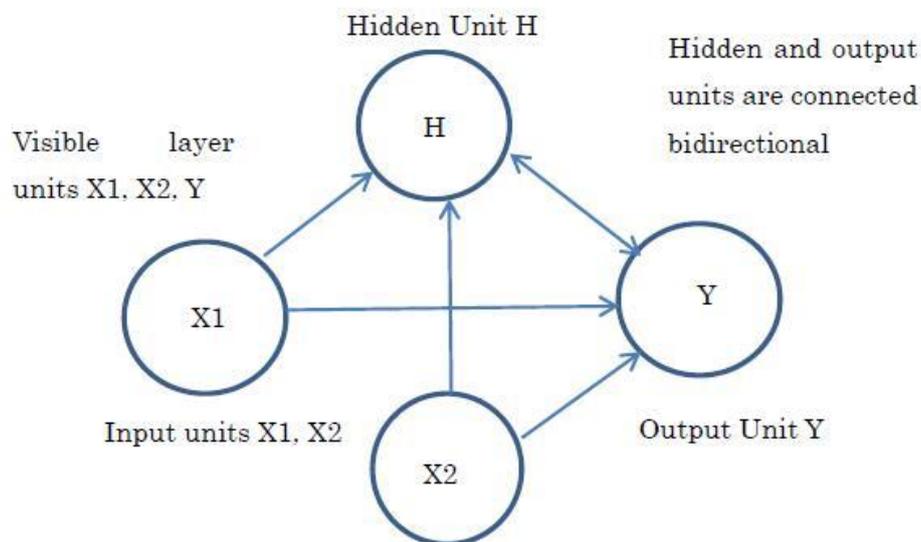


Fig 1: The Boltzmann Network for processing of thought flow in the human body

The derivative of G is

$$\frac{dG}{dw_{ij}} = -\frac{1}{T} (P_{ij} - P'_{ij}) \quad (8)$$

V. DESCRIPTION OF THE BOLTZMANN NETWORK

It is obvious from [1-4], that the Boltzmann network is able to learn spontaneously. The calculation of information-theoretic measure is done as the partial derivative of G with respect to the strength of flow of the thoughts. In the Boltzmann network, visible units are considered as present human being and hidden units in Boltzmann network are considered as previous or next life (i.e. soul of a human being).

VI. FLOW OF THOUGHT EXAMPLES AT A GLANCE

Sometimes as a human body we experience, when two persons meet they feel that they (or either one) may know each other or they may feel affection towards each other or it may happen the totally opposite of affection. Such situation happens due to the exchange of thoughts happen either after meeting this time or from past experiences during previous life. In other example sometimes parents claims that their children are not doing as they are expecting, this is because of the different beliefs of the children from their parent and these different beliefs of children may be from this present life or from previous life. On some occasions two persons are not agreeing on a matter, all of these happen due to flow of thought.

VII. THOUGHT ANNEALING IN HUMAN LIFE

The annealing means an iron is first heated to a higher temperature and reduce it till it become cool. The thought annealing is same as the concept in which the human body suffers through the thought of anger, hate and greed, desires etc throughout the life and at the point of death the last thought of the dying person inevitably reflects his inmost desire [8].

VIII. DEATH AND HINDUISM

The death is the separation of human body and the breathing. We know that the energy can be neither created nor destroyed [5]. From these concepts we can say that flow of thought (form of energy) cannot be died. According to Hinduism, death is a temporal cessation of physical activity and not an end of all but a natural process in the existence of being as a separate entity. Hence Hinduism believes in the rebirth and reincarnation of souls. The souls are immortal and imperishable [7].

IX. CONCLUSION AND DISCUSSION

As the Boltzmann machine network is able to learn automatically the same way as in the universe happens for the thought to thought communication among human being. The flow of thought in a form of energy is communicated among human bodies not only in the present life but in previous life and also it may happen in the next lives, which shows that the life after death is possible, which is also stated in the Hinduism.

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