A SEGNIFICANT STUDY ON ARTIFICIAL INTELLIGENCE STAGES

Kavita Srivastava, Faculty of BCA, Department of Business Management
And Entrepreneurship, Dr. R. M. L. A. University Ayodhya

Abstract : A various researchers and experts have considered that in previous years, an artificial neural network has used to the reduced software faults and errors in particular machines which generated by the humane interpretations. It develops large changes in the humane generated interpretations and manipulations. One aspect of this study is ANN and its parameters. Different algorithms have used the different layers and terminology in ANN terminology or model. Artificial neural network have involved three layers as INPUT LAYERS, HIDDEN LAYERS AND OUTPUT LAYERS with various parameters. In this article we will discuss the GA algorithms, artificial neural network and its layered approaches.

Keywords: Artificial Neural Network, GA Algorithms, Layered Approaches

I. INTRODUCTION

Artificial Neural Networks (ANN) is the bits of a registering framework intended to simulate the manner in which the human cerebrum breaks down and forms data [2, 7]. They are the establishments of Artificial Intelligence (AI) and take care of issues that would demonstrate inconceivable or troublesome by human or factual models [1, 5]. ANN makes them learn capacities that empower them to create better outcomes as more information wind up accessible. Artificial Neural Networks (ANN) is making ready forever changing applications to be created for use in all parts of the economy. Artificial Intelligence (AI) stages that are based on ANN are disturbing the customary method for getting things done. From making an interpretation of pages into different dialects to having a remote helper arrange goods online to speaking with chat bots to tackle issues, AI stages are rearranging exchanges and making administrations open to all at unimportant expenses. The development of AI started with the intention of creating similar intelligence in machines that we find and regard high in humans.

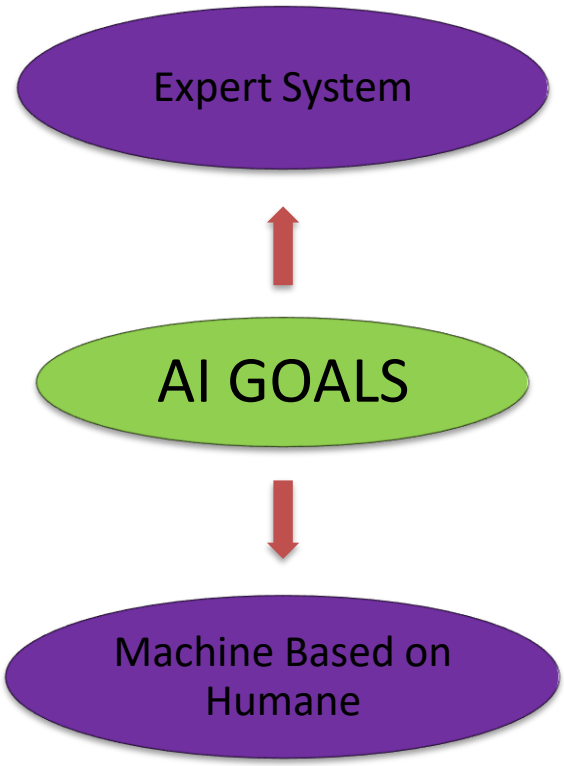

Figure 1 Artificial Intelligence Goal

II ARTIFICIAL NEURAL NETWORKS CONTRIBUTIONS

The area of artificial knowledge is immense in breadth and width [3,9] . While continuing, we consider the extensively normal and thriving exploration regions in the area of AI.

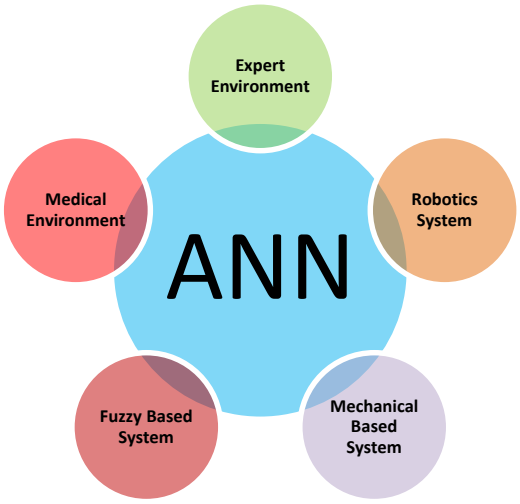

Figure 2 Artificial Neural Network Environments

ANNs are made out of multiple nodes, which mirror organic neurons of human cerebrum [4, 8]. The neurons are associated by connections and they collaborate with one another. The nodes can take input information and perform basic tasks on the information [6]. The consequence of these activities is passed to different neurons. The yield at every hub is called its initiation or hub esteem[10].

III ANN CONFIGURATION

A registering framework is comprised of various straightforward, exceedingly interconnected preparing components and they process data to outside contributions with their dynamic state reaction. A neuron can create a direct or a non-straight reaction. A non-straight artificial system is made by the interconnection of non-direct neurons. Non-direct frameworks have inputs which won't be relative to yields. A multilayer feed forward network with l input neurons (number of neuron), · · mp number of neurons at i-th hidden layer (i = 1, 2, · · , p) and n neurons at the last layer (it is the output neurons) is written as l − m1 − m2 − · · · − mp – n.

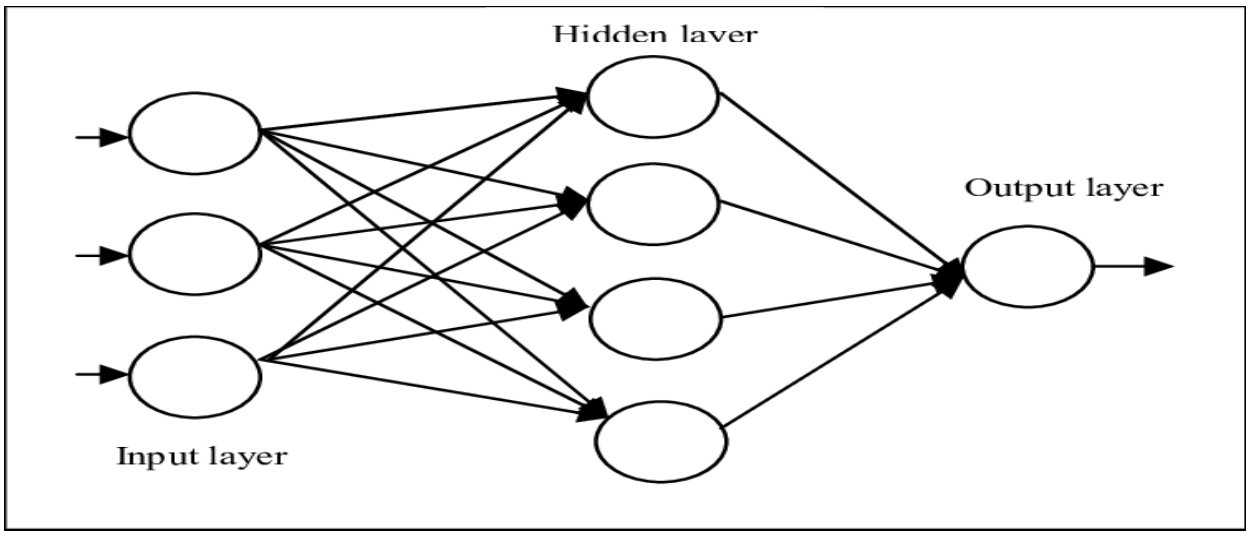

Figure 1 Neurons Architectures

IV CONCLUSION

We have presented a study on the state of artificial neural network. In this study conclude that ANN have contains three types of layers as input, hidden and output layers. And also found that an artificial neural network (ANN) is a computational nonlinear model based on the neural structure of the brain that is able to learn to perform tasks like classification, prediction, decision-making, visualization.

REFERENCES

[1] Artificial Intelligence by Elaine Rich and Kevin Knight, McGraw-Hill, 1991.

[2] Artificial Intelligence-A Modern Approach by Russel and Norvig, Prentice Hall, 1995.

[3] Girish Kumar Jha, Articifical Neural Networks and its Application, (2007).

[4] Feng F, Wu Y, Wu Y, Nie G, Ni R. The effect of artificial neural network model combined with six tumor markers in auxiliary diagnosis of lung cancer. J Med Syst. 2012 sep; 36(5):2973–80.

[5] Saritas I. Prediction of breast cancer using artificial neural networks. Journal of Medical Systems. 2012; 36(5):2901–7.

[6] Naghibi S, Teshnehlab M. Breast cancer classification based on advanced multi dimensional fuzzy neural network. Journal of Medical Systems. 2012; 36(5):2713–20.

[7] Kaur R. Early detection and prediction of lung cancer survival using neural network classifier. IJAIEM. 2013 Jun; 2(6):375–83.

[8] Ada, Kaur R. A study of detection of lung cancer using data mining classification techniques. IJARCSSE. 2013 Mar; 3(3):131–4.

[9] Taranpreet Singh Ruprah, "Face Recognition Based on PCA Algorithm," Special Issue of International Journal of Computer Science & Informatics (IJCSI), 2231–5292, Vol.- II, Issue-1, 2.

[10] Turk, M.A. and A.L. Pentland, 1991. Face recognition using Eigen faces. Proc. IEEE computer society Conf Computer Vision and pattern recognition, pp: 586-591.