



*Scienxt Journal of Artificial Intelligence and Machine Learning*

*Volume-1 || Issue-1 || Year-2023 || Jan-Apr || pp. 1-6*

*Survey Paper on  
Artificial Neural Network  
and its applications*

**Rupali Rahul Patil\***

*Assistant Professor, Department of MCA,*

*KKWIEER, Nashik, Maharashtra, India*

*E-mail: rr.patil@kkwagh.edu.in*

<https://doi.org/10.5281/zenodo.7965561>

\*Corresponding author: Rupali Rahul Patil

### **Abstract:**

The Artificial Neural Network (ANN) are simplified models of the neurons of the human brain to make computers useful. This can be helpful to solve the real-world problems. This creates intelligent data and some evaluation techniques like pattern recognitions and classifications. We can make the systems more simple, distributed and robust processing. ANN are parallel implementations of non-linear and static and dynamic systems. ANN can solve the hard problems using high degree of connectivity that gives neurons high computational power by the massive parallel structures. The different and explosive developments of the ANN applications is shown throughout this paper. ANN are used in the number of applications such as speech recognition, image recognition, machine translation and medical diagnosis, character recognition, signature verification, human face recognition, neural networks for data-intensive applications, Neuro-Fuzzy Models. Other than computer science it has wide applications in Mechanical, Electrical and Civil Engineering.

### **Keywords:**

Artificial, Neural, Network, Generalizations, Translation, Recognition.