

A NOVEL MEATHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM

TOP THREE IDEAS

- Neural Networks receive an input, and transform it through a series of hidden layers. Each hidden layer is made up of a set of neurons, where each neuron is fully connected to all neurons in the previous layer. Neurons in a single layer function completely independently. The last fully-connected layer is called the "output layer".
- The most widely used Machine Learning algorithms i.e. CNN using Tensorflow have been trained and tested on the same data to draw a comparison as to why we require deep learning methods in critical applications like Handwritten Digit Recognition.
- The Convolutional layer is the core building block of a CNN. The layer's parameters consist of a set of learnable filters (or kernels), which have a small receptive field, but extend through the full depth of the input volume.