Digit Recognizer

Task: The dataset of handwritten images has served as the basis for benchmarking classification algorithms. As new machine learning techniques emerge, MNIST remains a reliable resource for researchers and learners alike. Here goal is to correctly identify digits from a dataset of tens of thousands of handwritten images.

Algorithm: A Convolutional Neural Network (ConvNet/CNN) is a Deep Learning algorithm which can take in an input image, assign importance (learnable weights and biases) to various aspects/objects in the image and be able to differentiate one from the other.

Why Used this Algorithm: CNN compared to its predecessors is that it automatically detects the important features without any human supervision.

Accuracy : 98.95%

Conclusion: The project of the undertaking is just to create a model which can recognize the digits using MNIST datasets however it can be prolonged to letters and then a person’s handwriting. It can be used by countless organization, schools, banks and even for family activities.

Handwritten digit focus will be beneficial for government bodies or any different organization to identify citizenship identification range which helps in automation. Likewise, license card quantity of any individual can be diagnosed thru this system. Similarly, it can be used for academic reason the place student can learn and recognize the real world solution making use of this system. Similarly, postal addresses, bank cheque digit consciousness can be made less complicated thru automation the usage of this system.