**CHAPTER 12 - CONCLUSION AND FUTURE SCOPE**

In this project , we have shown that that using deep learning techniques, a very high amount of accuracy can be achieved. Using the Artificial Neural Network with MNIST dataset, we’re able to get an accuracy of 98.72%. The handwritten digit recognition using artificial neural network has proved to be of a fairly good efficiency. It works better than any other algorithm including convolutional neural network.

Each apparatus has its own unpredictability and precision. Despite the fact that, we see that the intricacy of the code and the cycle is bit more when contrasted with ordinary machine learning calculations yet taking a gander at the precision accomplished, it very well may be said that it is justified, despite any trouble.

The fundamental goal of this examination is to discover a portrayal of disengaged transcribed digits that permit their powerful acknowledgment. In this undertaking we utilized Artificial neural organization for acknowledgment of manually written numerals.

The main objective of this investigation is to find

a representation of isolated handwritten digits that allow

their effective recognition. In this paper used different

machine learning algorithm for recognition of

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In any hand written digit recognition process, the key factor is to address the feature extraction and correct classification approaches. The above algorithm that we have used tries to address both the factors and well in terms of accuracy and time complexity.

The model can be extended to work on NIST dataset. We can increase the accuracy further by implementing more number of hidden layers and/or epochs. We can detect hand written digits easily. We can use ANN with less layers to get better accuracy.