Literature Survey:

S:NO	PAPER NAME	JOURNAL NAME	DESCRIPTION
01	Handwritten Digit Classification	JETIR(2021)-ISSN-2349-5162	Handwriting recognition has been the main subject of research for almost the last forty years. This research work analyzes the behavior of classification techniques (CNN) in a large handwriting dataset (MNIST) to predict a digit.
02	Handwritten Digit Recognition of MNIST dataset using Deep Learning state-of-the-art Artificial Neural Network (ANN) and Convolutional Neural Network (CNN)	IEEE explore -18-19 October 2019	Handwritten digit recognition is an intricate assignment that is vital for developing applications, in computer vision digit recognition is one of the major applications. There has been a copious exploration done in the Handwritten Character Recognition utilizing different deep learning Models.

03	Handwritten Digit Recognition System Based on Convolutional Neural Network	IEEE International Conference on Advances in Electrical Engineering and Computer Applications (AEECA) 2020	Image recognition is widely used in the field of computer vision today. As a kind of image recognition, digit recognition is widely used. Today, the online recognition technology in digit recognition is relatively mature while the offline recognition technology is not. This paper mainly introduces an offline recognition system for handwritten digits based on convolutional neural networks.
04	Handwritten Digit Recognition using Machine Learning Algorithms	Global Journal of Computer Science and Technology: DNeural & Artificial Intelligence Volume 18 Issue 1 Version 1.0 Year 2018	An approach to off-line handwritten digit recognition based on different machine learning techniques such as Multilayer Perceptron, Support Vector Machine, Naïve Bayes, Bayes Net, Random Forest, J48 and Random Tree has been used for the recognition of digits using WEKA.

05	A Comparative Study on Handwriting Digit Recognition Using Neural Networks	IEEE Xplore - International Conference on Promising Electronic Technologies (ICPET), 2017	The Handwritten digit recognition is based on Neural Network (NN) approaches. The most three famous NN approaches are deep neural network (DNN), deep belief network (DBN) and convolutional neural network (CNN). The results show that among the three NN approaches, DNN is the most accurate algorithm; it has 98.08% accuracy rate. However, the execution time of DNN is comparable with the other two algorithms. On the other hand, each algorithm has an error rate of 1-2% because of the similarity in digit shapes, specially, with the digits (1,7), (3,5), (3,8), (8,5) and (6,9).