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Literature Survey:

Sl. No	Title of Paper	Name of Authors	Published Year	Remarks
01	Hand-Written digit Recognition base on Improved LeNet5	Naiging Yu, Panna jiao, Yuling zheng.	2015	Methodology : Two best classifiers used. 1.LeNet5 CNN 2.Support Vector machine Algorithm : Uses Stochastic diagonal Levenberg-Marquardt algorithm. Advantages : Good Convergence and Advantage of CNN and SVM. Dis-advantages : Requires a minimum of 30 epochs.
02	Bangla Handwritten Digit Recognition Using an Improved Deep Convolutional Neural Network Architecture	Chandrika Saha, Rahat Hossain, Md. Mostafijur Rahman	2019	Methodology : Seven layered D-CNN model is used. Algorithms : Data augmentation method Advantages : Highly accurate. Dis-advantages : Total of 40 epochs are used. Applications: Provides 99.9% accuracy on training data and 97.6% accuracy on testing data
03	Mobile Client-Server Approach for Handwriting Digit Recognition.	Hasbi Ash Shiddieqy, Trio Adiono, Infall Syafalni	2019	Methodology : Takes input from android touch and Predicts the digit. Algorithms : Client server approach. Lecun2 architecture. Advantages : Training done on server-side so fast development. More efficient. Can be deployed on any software (CPU,GPU,FGPA). Applications: Basically on mobile application .
04	Handwritten digits recognition with decision tree classification: a machine learning approach.	Tsehay Admassu Assegie, Pramod Sekharan Nair	2019	Methodology : a decision tree classification model Algorithms : feed-forward algorithm Advantages : Fast and simple. Dis-advantages : Comparatively less accuracy (83.4%)

05	Handwritten Digit Recognition Using CNN.	Mayank Jain, Gagandeep Kaur, Muhammad Parvez Quamar, Harshit Gupta	2021	Methodology : Unadulterated CNN model Algorithms : Classifier blend approach Advantages : Best acknowledgment (99.89%), Time efficient.