Literature Survey:

Prepare below table after reading and analysing IEEE Papers:

Sr. No	Title of Paper	Name of Authors	Published Year	Remarks
1.	Mobile Client- Server Approach for Handwriting Digit Recognition	Hasbi Ash Shiddieqy, Trio Adiono, Infall Syafalni	2019	**Methodology:** Algorithm is based on the backpropagation learning. Artificial Neural network (ANN) and Convolutional neural network (CNN) algorithm will be used for recognition module. **Advantage:** Proven, highly scalable, easy to integrate, low cost. **Disadvantages:** Eliminate the ability to run offline, concern in data privacy and protection, the cost for service managing servers.
2.	Handwritten Digit Recognition Using CNN	Mayank Jain, Gagandeep Kaur, Muhammad Parvez Quamar, Harshit Gupta	2021	**Methodology:** Using the MNIST (Modified National Institute of Standards and Technologies) database and compiling with the CNN model. **Advantages:** Explores all the boundaries of CNN engineering, Convey the best acknowledgment precision for a MNIST dataset. **Conclusion:** Developmental calculations can be investigated for streamlining CNN learning boundaries in future.
3.	Handwritten digits recognition with decision tree classification: a machine learning approach	Tsehay Admassu Assegie, Pramod Sekharan Nair	2019	**Methodology:** Decision Tree model break down our data by making decisions based on asking a series of questions and the classifier tests all of the possible sets. Standard Kaggle digits dataset is used. **Advantages:** Widely used, simplest machine learning model. **Disadvantages:** The random forest performed superior than decision tree classification.

4.	Hybrid CNN-SVM Classifier for Handwritten Digit Recognition	Savita Ahlawat, Amit Choudhary	2019	**Methodology:** Hybrid model of a CNN and Support Vector Machine (SVM). CNN works as an automatic feature extractor and SVM works as a binary classifier. **Advantages:** SVM's structural risk minimization ability and CNN's deep feature extraction ability is extremely useful in many domains. **Disadvantages: P**oor for noisy data, the shallow architecture of SVM presents some difficulties in learning deep features.
5.	Capsule-Based Persian/Arabic Robust Handwritten Digit Recognition Using EM Routing	Ali Ghofrani, Rahil Mahdian Toroghi	2019	**Methodology:** Capsule network was employed and trained using Expectation-Maximization (EM) Algorithm with Hoda dataset. **Advantages:** Understand the rotation or change of proportion of the input images.

(Remarks: It will include all the points that you understand from the paper..such as methodology, algorithms, advantages, disadvantages, applications, etc.)

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