**Name- Tejaswini Singh**

**Literature Survey:**

Prepare below table after reading and analysing IEEE Papers:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **Title of Paper** | **Name of Authors** | **Published Year** | **Remarks** |
| **1** | **Handwritten Digit Recognition Using Machine Learning** | 1.[Anchit Shrivastava](https://ieeexplore.ieee.org/author/37087412460)  2.[Isha Jaggi](https://ieeexplore.ieee.org/author/37087411300)  3.[Sheifali Gupta](https://ieeexplore.ieee.org/author/37087411851) | **03 February 2020** | **In this paper, review of different methods handwritten digit recognition were observed and analyzed.** |
| **2** | **Handwritten Digit Recognition Based on Convolutional Neural Network** | 1.[Chao Zhang](https://ieeexplore.ieee.org/author/37088392306)  2.[Zhiyao Zhou](https://ieeexplore.ieee.org/author/37086922354)  3.[Lan Lin](https://ieeexplore.ieee.org/author/37085692549) | **29 January 2021** | **This paper proposes a new type of handwritten digit recognition system based on convolutional neural network (CNN). To improve the recognition performance** |
| **3** | **DIGIT RECOGNITION USING OPENCV AND CNN** | **1.K** **Swetha**  **2.Y Hithaishi**  **3. N.L. Tejaswini**  **4 Parthasaradhi 5.Venkateswara Rao** | **6 June 2021** | **The goal of this paper is to observe the variation of different algorithms that can classify the handwritten digits using different hidden layers, various number of epochs and to make a comparison based on the accuracy.** |
| **4** | **Digit Recognition Using Various Machine Learning Algorithms and Models** | [Pranit Patil](https://papers.ssrn.com/sol3/cf_dev/AbsByAuth.cfm?per_id=4367067) | **23 JULY 2020** | **In this paper we use various Machine Learning algorithms to enhance the productiveness of technique and reduce the complexity using various models. Machine Learning is an application of Artificial Intelligence that learns from previous experience and improves automatically through experience.** |
| **5** | **A Survey of Handwritten Character Recognition with MNIST** | **1.Alejandro Baldominos**  **2.Yago Saez**  **3.Pedro Isasi** | **4 August 2019** | **This paper has provided an exhaustive review of the state of the art for** **the MNIST databases.**  **The MNIST database of handwritten digits was introduced almost two decades ago and has been extensively used to validate computer vision algorithms, and more recently, also as a benchmark to test different convolutional neural networks architectures and approaches. To the best of our knowledge, this paper provides the most extensive and updated survey of the MNIST dataset, including papers as recent as 2019 and making a distinction on whether they use pre-processing and data augmentation or not.** |