LITERATURE SURVEY:

By:Iram Ayaaz Pathan

Email id:irampathan21@gmail.com

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| **Sr. No** | **Title of Paper** | **Name of Authors** | **Published Year** | **Remarks** |
| 1 | HANDWRITTEN CHARACTER RECOGNITION USING ARTIFICIAL NEURAL NETWORKS | Jagbeer Singh, Soumya Kohli, Tanu Sharma, Muskan Goyal, Nisha Singh | 2023 | An artificial neural network CNN is used to detect the written character. |
| 2 | HANDWRITTEN RECOGNITION BY USING MACHINE LEARNING APPROACH | P.Thangamariappan  Dr.J.C.Miraclin Joyce Pamila | 2020 | It uses the MNIST data set and CNN algorithm for detection of the digits.it provides 98.5% accurate output. |
| 3 | Machine Learning for Handwriting Recognition | Preetha S , Afrid I M, Karthik Hebbar P , Nishchay S K | 2021 | It uses image prcessing technology for recognition.and uses steps such as preprocessing,segmentation,etc |
| 4 | Handwritten Digit Recognition Using CNN | Viswanatha V, Ramachandra A C, Satya Dev Nalluri, Sai Manoj Thota, Aishwarya Thota | 2023 | Character recognition, ReLU function, Feature extraction, Handwriting Recognition, Deep learning. |
| 5 | CNN-RNN BASED HANDWRITTEN TEXT RECOGNITION | G.R. Hemanth, M. Jayasree, S. Keerthi Venii, P. Akshaya, and R. Saranya | 2021 | Offline Handwritten Text Recognition, Convolutional Neural Network, Recurrent Neural Network, Connectionist Temporal Classification, Long Short-Term Memory |