**Project Design Phase-I**

**Problem Solution Fit**

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| **Date** | **10 october2022** |
| **Team ID** | **PNT2022TMID17271** |
| **Project Name** | **AI for A Novel Method For Handwritten Digit Recognition System** |



**OFFLINE**: The control action is taken by the network to monitor the easy to understand.

**ONLINE:** The Data send through application for the digital to know about the handwritten.

**Direct related**: The purpose of this project was to introduce neural networks through a relatively easy-to-understand application.

**Indirect related**: Use the MNIST database of handwritten digits to train a convolutional network to predict the digit given an image.

The results can be made more accurate with more convolution layers and more number of hidden neurons.

As the outputs of the neural network are not probabilities per se, the degree of certainty of the result cannot be told. But this could be solved by adding a Softmax layer to the network, which turns numbers into probabilities.

Handwriting recognition (HWR), also known as handwritten text recognition (HTR), is the ability of a computer to receive and interpret intelligible.

MNIST is a dataset which is widely used for handwritten digit recognition.

1)Deep Learning/CNN,2) Gaussian Naive Bayes

* it is not done in real time as a person writes and therefore not appropriate for immediate text input.
* reading postal addresses, bank check amounts, and forms.

Developers are putting all their strength to make machines more intelligent, and smarter than humans.

Identifying handwritten digits using Logistic Regression in PyTorch.

**BEFORE**: Import the libraries and load the dataset.

**AFTER** : SVM classifier is the most accurate