A Novel Method for Handwritten Digit Recognition System

Proposed Solution

- Problem Statement:
  A Novel Method for Handwritten Digit Recognition System.

- Idea/Solution description:
  Using Deep learning techniques such as Convolutional Neural Network to recognize handwritten digits. A web application that takes images of handwritten digits as input and recognizes them. The application is built using Flask Framework.

- Novelty/Uniqueness:
  Usage of upcoming technologies like Deep learning and Artificial Neural Network. The current system is more efficient and reliable than the ones that were traditionally used.

- Social Impact/Customer Satisfaction:
  People can now easily interpret postal code, zip code, bank cheques, handwritten letters, papers, etc. People are now more confident while dealing with handwritten texts/digits. This application can be applied on a lot more use-cases.

- Business Model/Financial Benefit:
  The application can be built free of cost with currently available technologies and dataset.

- Scalability of solution:
  The application can be further enhanced to recognize handwritten text as well. This can be applied in a lot of instances like signature verification, etc.
  The application can be developed in such a way that it can scan a handwritten digit/text and immediately display what has been recognized. Can make the whole process quicker and easier.