

PROPOSED SOLUTION

1. Problem Statement

Digits that are manually written range in size, thickness, placement, and orientation. To identify the problem of handwritten digit recognition, numerous issues must be taken into account.

2. Idea / Solution description

We will apply a classification technique to identify the handwritten digits in order to resolve this issue. This approach will work well for distinguishing between digits with various compositions.

3. Novelty / Uniqueness

Method for interpreting and organizing transcribed numbers. is usable offline extra data sets were provided for greater accuracy The distinctiveness and variety of each person's compositional approach can also have an impact on the example and presence of the numbers.

4. Social Impact/ Customer Satisfaction

The primary societal benefit of this effort is to ensure effective and trustworthy methods for handwritten digit recognition and facilitate error-free financial transactions. Customers will feel comfortable using it because it is simple and convenient. This has a wide range of applications because the precision is adequate.

5. Business Model (Revenue Model)

Numerous sectors that require this application, such as those that deal with programmed bank checks, postal addresses, and tax documents, can turn to this unique way for the Handwritten Digit Recognition System. It can occasionally be challenging to read the handwritten numerals with the naked eye since they vary in size, thickness, and direction. These characteristics can also cause mistakes. This is where our suggested remedies can be of assistance.

6. Scalability of the Solution

Banks and other financial and commercial entities are having trouble reading written numbers on things like checks and other documents. As companies expand into new business categories, this may be managed by our handwritten digit recognition project without degrading performance. Because it is dynamic and was taught using AI and deep learning models, our suggested solution is scalable.