A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION

Problem Statement:

The user need to recognize the handwritten digit recognition because it is useful to solve complex problems and make human job easier so that would be useful for recognition of different handwriting very effectively and quickly

Defining the Problem with the 5 w's:

1. **Who does the problem affect?**

   The problem affects the people who are in direct way of recognizing handwritten digits by traditionally .Since handwritten recognize software needs people who are having a good understanding about technology and accessibility resources of the software. This resource spent towards the manpower can be greatly reduced and replaced with a simple software.

2. **What are the boundaries of the problem?**

   Recognition boundary: While using the software to recognize the handwritten digit, if it is not legible or not able to recognize because of lack of training the dataset .

   Technology and Access boundary: People with good understanding of technology are able to access,not everything is accessible by layman or old people

3. What is the issue?

It is difficult to train the model for every possible handwriting, so that would be difficult for the user to recognize the digits if it is not written legibly

4. When does the issue occur?

If the handwritten digit is not written legibly or if the handwriting was not clear, it may reduce the efficiency and results in false recognition or failure in recognition by the software

5. Where is the issue occurring?

This issue occurs where the uses the traditional way of recognizing the digits that may leads to producing wrong result and is devoid of a software that can manage the recognition

6. Why is it important that we fix the problem?

The users need a way to recognize a different possible handwriting to recognize their handwritten data because they only do it in traditional way by seeing and recognize it and not properly organised so that they are able to recognize the handwritten data quickly and safely. This will greatly aid the user on their vision for improving their business like in banking areas by providing a good analysis