PROBLEM STATEMENT

A Novel Method for Handwritten Digit Recognition System

DEFINITION:

Machines are becoming more smart and intelligent by using machine learning and deep learning techniques so that they can perform tasks similar to humans. With the help of these techniques human effort can be reduced in recognizing, learning, predictions and many other areas. The goal of this project is to correctly identify digits from a dataset of tens of thousands of handwritten digit images and use different machine learning algorithms to learn first-hand what works well and gives the highest accuracy. This algorithm can then be used in various places like in postal services, banking services, etc.

Problems:

Banking services don't have a proper computerized system for the processing of cheque leaf.

Postal services don't have a computerized system for segregation of letters and parcels based on the Pin-code of the sending address.

QUESTION	DESCRIPTION
Who Does the Problem Affect?	It affects old aged people, banking
	services, postal services in
	understanding the handwritten
	digits.
What Are the Boundaries of The	The boundaries are different styles
Problem?	of handwritten digits, high
	accuracy in the prediction process.
What is the Issue?	Since everyone's handwriting is
	different, it maybe difficult for
	some to identify what one has
	written. Especially in banking and
	postal services where digits are
	important.
When does the issue occur?	It occurs when the handwriting of a
	person is difficult to read or
	recognize.
Where is the issue occurring?	The issue is occurring in various
	places from banking sector to
	industries.
Why is it important that we fix	It improves the readability and also
the problem?	prevents errors.