

Date	2-November-2022
Project Name	A Novel Method for Handwritten Digit Recognition System
Team ID	PNT2022TMID24826IBM

Major Issues in the Project

- The problem statement is to classify handwritten digits. The goal is to take an image of a handwritten digit and determine what that digit.
- The comparison between these algorithms is carried out on the base of their delicacy, crimes, and testing- training time corroborated by plots and maps that have been constructed using **matplotlib** for visualization.
- **The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits. It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes. The handwritten digit recognition. Convolutional Neural Network model created using PyTorch library over the MNIST dataset to recognize handwritten digits .**
- handwritten digit recognition system is a way to tackle this problem which uses the image of a digit and recognizes the digit .

QUESTION	DESCRIPTION
What does the problem affect?	Handwriting recognition tends to have problems when it comes to

	accuracy. People can struggle to read others' handwriting. How, then, is a computer going to do it? The issue is that there's a wide range of handwriting good and bad.
What is the issue?	Some digits may not be recognised properly due to some errors.
Why is it important that we fix the problem?	The high variance in handwriting styles across people and poor quality of the handwritten text compared to printed text pose significant hurdles in converting it to machine readable text. The problem is complex to solve for multiple industries like healthcare, insurance and banking.