A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION

INTRODUCTION:

- Handwritten digit recognition is the ability of a computer system to recognize the handwritten inputs like digits, characters etc., from a wide variety of sources like emails, papers, images, letters etc.
- This has been a topic of research for decades. Some of the research areas include signature verification, bank check processing, postal address interpretation from envelopes etc.
- Handwriting recognition system is the most basic and an important step towards this huge and interesting area of Computer Vision.

PROBLEM STATEMENT:

- The problem statement is that the capability of the computer to identify and understand handwritten digits automatically where the handwritten digits images are given as input to an AI model, the required and essential features from the input are taken, analyzed and the AI model will predict the handwritten digit.

OBJECTIVE OF THE PROJECT:

- To build an AI model that can input the of the handwritten digits and take the required and essential features from the taken input and analyze the AI model and predict the handwritten digit.

NEED AND SCOPE FOR THE PROJECT:

Scope:
- Handwritten digit recognition becomes a vital scope and it is appealing to many researchers because of its use in a variety of machine learning and computer vision applications.

Need:
- It is a hard task for the machine to predict the handwritten digits because handwritten digits are not perfect and can be made with many different flavors. The handwritten digit recognition is the solution to this problem which uses the image of a digit and recognizes the digit present in the image.