A NOVEL METHOD FOR HAND WRITTEN RECOGNITION SYSTEM

Introduction :

The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits.It is the hard task for the machine because handwritten digits are not prefect and can made many different shapes and sizes. The handwritten digit recognition is a way to tackle this problem which cause the images of digit and recognizes the digit present in the image.

PROBLEM STATEMENT:

Following are the constraints faced when computers approach to recognize handwritten digits:

- *The Handwritten digits are not always of the same size, width, orientation and justified to margins as they differ from writing of person to person.*

- *The similarity between digits such as 1 and 7, 5 and 6, 3 and 8, 2 and 7 etc. So, classifying between these numbers is also a major problem for computers.*

- *The uniqueness and variety in the handwriting of different individuals also influence the formation and appearance of the digits..*

CONCLUSION :

Recognition of characters and digits is viral in today's digitized world,especially in organizations that deal with handwritten documents that they need to analyze using computer systems. Convolutional Neural Network gets trained from the real-time data and makes the model very simple by reducing the number of variables and gives relevant accuracy. It can be used to convert books, newspapers and handwritten notes into digital text format using machine learning models.