



PROBLEM STATEMENT

A Novel Method for Handwritten Digit Recognition System

Our system aims to accurately recognize digit given as the input in the form of image or document in order to quickly identify different handwriting styles and to minimize the need for human interpretation. A few applications of the system would be postal mail sorting, bank cheque processing, form data entry, etc. We aim to develop 7-layered CNN model with 5-hidden layer along with Gradient descent and Back propagation model to find and compare accuracy on different Epochs . We achieve this by using MNIST Dataset ,which contains 60,000 handwritten digit images for the classifier training and 10,000 handwritten digit images for the classifier testing. Finally, the recognized digit will be displayed in the user interface.

ARCHITECTURAL DIAGRAM

