

PROBLEM STATEMENT

The handwritten digit recognition system is a way to tackle this problem which uses the image of a digit and recognizes the digit present in the image.

What does this problem focus on?	The generative models can perform recognition driven segmentation. The method involves a relatively small number of parameter and hence training is relatively easy and fast.
When does this occur?	This work based on shape analysis of the digit image and extract slant or slope information. They are effective in obtaining good recognition accuracy.
Why do we need this?	Handwriting digit recognition system is to convert handwritten digits into machine readable formats. this work is to ensure effective and reliable approaches for recognition of handwritten digits and make banking operations easier and error free.
How to do this?	The Handwriting digit to be recognized is digitized through scanners or cameras. The image of the document is segmented into lines, numbers, and individual digit. Each digits is recognized using machine learning.
Where it is used?	The digit recognition system is used in postal mail sorting, bank check processing, form data entry, register number.