

ABSTRACT

Humans may see their surroundings visually by using their eyes and brains. The goal of computer vision is to make it possible for computers to perceive and process images in a manner similar to that of humans. In the field of computer vision, several algorithms were created to recognise images. The purpose of this effort is to develop a model that can more accurately recognise and extract the handwritten digit from datasets utilizing the ideas of Though the objective is to develop a model that can detect digits, it can also extend to letters and eventually handwriting. People can study and use the concepts through this work.

OBJECTIVE

Handwritten digit recognition refers to a computer system's capacity to identify handwritten inputs, such as numbers and characters, from a range of sources, including emails, papers, photographs, letters, etc. This has been a subject of study for many years. Verifying signatures, processing bank checks, deciphering postal addresses from envelopes, and other research topics are some of them. The scope of this project is to improvise the accuracy in recognizing and making image processing techniques to robots. These features are based on shape analysis of the digit image and extract slant or slope information. They are effective in obtaining good recognition accuracy.

PROBLEM STATEMENT

Problem Statement	Customer	Difficulty	Reason
1	Japanese	Recognize the Indian digits	It is difficult There is no proper source to learn Frustrated
2	A bank employee	Recognize the digit written on cheque	I can't recognize it The digits are not written properly Confused
3	A student	Recognize the last date for paying the exam fees which is	I can't find the correct date. The shapes of the digits

		written on the board	are a little bit different. Sad that I can't recognize the date
4	A placement officer	Recognize students' DOB details which have been collected from the students to update the database	I can't able to understand some digits Some digits are scribbled Tensed that I can't able to recognize the digit

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