Case Study of Handwritten Text Recognition Using Machine Learning

Purpose :	Handwritten text recognition poses greater challenges in the field of image processing. The proposed system is used to classify an individual handwritten character and translated to a digital form.
Significance	The present work provides an effective way to detect the handwritten words. Offline handwriting recognition, often referred to as optical character recognition, is performed after the writing is completed by converting the handwritten document into digital form. Offline recognition is done at any time after the document has been written. It is not done in real time as a person writes.
Inputs:	In proposed system we have to input text images from database. Resize image and convert them into grey image Convert into binary image.
Output :	This dataset includes training, validation, testsplit. We have tested our system on the IAM English handwritten dataset. Screenshot shows recognition obtained on the IAM dataset. It is observed that our predicts results match with the actual text
Methodology :	Image processing techniques Segmentation classification
Functions of Designed system:	The proposed model is designed for user on system of having 8GB RAM 64 Requirement specification is study about hardware and software. processor: Intel Core i5 processor. First we pre-process the image like resizing the image,grey conversion and binary conversion.
Design metrics:	Duration 90 D Dataset-IAM Dataset Used google colab.
Future Scope	It can be used in different devices such as touchpad so that the built-in software can automatically detect the text.writing and conversion into digital text,will simplify our understanding.

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