

# AI BASED HANDWRITING RECOGNITION SYSTEM

**Dineshraj A**

**Nithees Kumar M**

**Raghul S**

**Shiva Kumar A**

## LITERATURE SURVEY

S.no	Title	Author	Abstract
1.	Deep learning based handwriting recognition with adversarial feature deformation and regularization	Yasir Babiker Hamdan , A.Sathesh	Due to the complex and irregular shapes of handwritten text, it is challenging to spot and recognize the handwritten words. In low-resource scripts, retrieval of words is a difficult and laborious task. The need for increasing the number of samples and introducing variations in the extended training datasets occur with the use of deep learning and neural network models. All possible variations and occurrences cannot be covered in an efficient manner with the use of the existing preprocessing strategies and theories.

2.	Use an efficient Neutral network to improve the Arabic Handwriting Recognition.	Husam Ahmed Al Hamad	Using an efficient neural network for recognition and segmentation will definitely improve the performance and accuracy of the results; in addition to reduce the efforts and costs. This paper investigates and compares between results of four different artificial neural network models. The same algorithm has been applied for all with applying two major techniques, first, neural-segmentation technique, second, apply a new fusion equation. The neural techniques calculate the confidence values for each Prospective Segmentation Points (PSP) using the proposed classifiers in order to recognize the better model, this will enhance the overall recognition results of the handwritten scripts.
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3.	An overview of Handwriting Recognition	Hoomayoon S.M. Beigi	<p>This paper presents a comprehensive review of Handwritten Character Recognition (HCR) in English language. The handwritten character recognition has been applied in variety of applications like Banking sectors, Health care industries and many such organizations where handwritten documents are dealt with.</p> <p>Handwritten Character Recognition is the process of conversion of handwritten text into machine readable form. For handwritten characters there are difficulties like it differs from one writer to another, even when same person writes same character there is difference in shape, size and position of character. Latest research in this area has used different types of method, classifiers and features to reduce the complexity of recognizing handwritten text</p>
4.	Recognition of Hand written and printed Text of Cursive writing utilizing optical character recognition	Sudharsan Duth P, B, Amulya	<p>This paper presents a comprehensive review of Handwritten Character Recognition (HCR) in English language. The handwritten character recognition has been applied in variety of applications like Banking sectors, Health care industries and many such organizations where handwritten documents are dealt with.</p> <p>Handwritten Character</p>

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