Ideation Phase
Literature Review

Date	05 October 2022
Team ID	PNT2022TMID23384
Project Name	A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM

SL	TITLE	DESCRIPTION
1	An overview of Handwriting recognition	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. 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
2	Recognition of Hand written and printed Text of cursive utilizing optical character recognition	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. Handwritten Character Recognition is the process of conversion of handwritten text into machine readable font. For handwritten characters there are difficulties like it differs from one writer to another, even when same person writes same character there

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3	Comparison of learning algorithms for handwritten digit recognition	Designing a practical recognition system for comparing shape recognition methods. Performance depends on many factors including high accuracy, low runtime and low memory requirements. Larger recognizers in turn require larger training sets.
4	A Novel Method for Handwritten Digit 1 Recognition Using Image Processing and Neural Networks	The MNIST database has been used for that which is already divided into training set of 60,000 examples and test of 10,000 example.The training algorithm used is Convolution Neural Network. This will prepare the trained model which will be used to classify the digits present in the test data. By using the Convolution Neural Network we can able to get an accuracy of 95.72%. Sometimes it doesn't provide the appropriate solution based on input