

**Project Design Phase-I**  
**Proposed Solution**

Date	20 October 2022
Team ID	PNT2022TMID03576
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p><b>Statement-</b>The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits.</p> <p><b>Description:</b> It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes.</p>
2.	Idea / Solution description	<p>-It is the capability of a computer to fete the mortal handwritten integers from different sources like images, papers, touch defences.</p> <p>-It allows user to translate all those signature and notes into electronic words in a text document format and this data only requires far less physical space than the storage of the physical copies.</p>
3.	Novelty / Uniqueness	Accurately recognize the digits rather than recognizing all the characters like OCR.
4.	Social Impact / Customer Satisfaction	<ol style="list-style-type: none"><li>1. Artificial Intelligence developed the app called Handwritten digit Recognizer.</li><li>2. It converts the written word into digital approximations and utilizes complex algorithms to identify characters before churning out a digital approximation.</li></ol>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"><li>• This system can be integrated with traffic surveillance cameras to recognize the vehicle's number plates for effective traffic management.</li><li>• Can be integrated with Postal system to identify and recognize the pin-code details easily.</li></ul>

6.	Scalability of the Solution	<ul style="list-style-type: none"><li>• Ability to recognise digits in more noisy environments.</li><li>• There is no limit in the number of digits it can be recognized.</li></ul>
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