

## PROJECT DESIGN PHASE-1

### PROPOSED SOLUTION TEMPLATE

<b>DATE</b>	14 October 2022
<b>TEAM ID</b>	PNT2022TMID51505
<b>PROJECT NAME</b>	A Novel Method for Handwritten Digit Recognition System
<b>MAXIMUM MARKS</b>	2 Marks

#### Proposed Solution:

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>1. It is the capability of a computer to fetch the mortal handwritten integers from different sources like images, papers, touch defences.</p> <p>2. 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	<p>1. Artificial Intelligence developed the app called Handwritten digit Recognizer.</p> <p>2. It converts the written word into digital approximations and utilizes complex algorithms to identify characters before churning out a digital approximation.</p>
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></ul>

		<ul style="list-style-type: none"> <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>