PROJECT DESIGN PHASE-1

PROPOSED SOLUTION TEMPLATE

DATE	25 September 2022
TEAM ID	PNT2022TMID41032
PROJECT NAME	A Novel Method for Handwritten Digit Recognition System
MAXIMUM MARKS	2 Marks

Proposed Solution:

S.NO	Parameter	Description
1.	Problem Statement (Problem to be solved)	**Statement**-The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits. **Description**: It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes.
2.	Idea / Solution description	•Hand scripts need not necessarily being the same size, thickness, orientation and validated to margins.
3.	Novelty / Uniqueness	•Unlike many other recognition schemes, it does not rely on some form of pre-normalization of input images, but can handle arbitrary scalings, translations and a limited degree of image rotation.
4.	Social Impact / Customer Satisfaction	•While automating the digitizing process of the hand scripting document, human centric digitization results in slower, error prone and thus inefficient. Thus an AI based application is mandate to make the process more accurate, less time consuming and effective.
5.	Business Model (Revenue Model)	• This system can be integrated with traffic surveillance cameras to recognize the vehicle's number plates for effective traffic management.

		• Can be integrated with Postal system to identify and recognize the pin-code details easily.
6.	Scalability of the Solution	• Ability to recognize digits in more noisy environments. • There is no limit in the number of digits it can be recognized.