PROJECT DESIGN PHASE-1

PROPOSED SOLUTION TEMPLATE

DATE	24 September 2022
TEAM ID	PNT2022TMID35418
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	1. It is the capability of a computer to fete the mortal handwritten integers from different sources like images, papers, touch defences. 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.
3.	Novelty / Uniqueness	Accurately recognize the digits rather than recognizing all the characters like OCR.
4.	Feasibility of Solution	With a model trained using diverse images, digits can be identified with great accuracy.
5.	Social Impact / Customer Satisfaction	1.Artificial Intelligence developed the app called Handwritten digit Recognizer. 2. It converts the written word into digital approximations and utilizes complex algorithms to identify characters before churning out a digital approximation.
6.	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.
7.	Scalability of the Solution	• Ability to recognise digits in noisier environments. • There is no limit in the number of digits it can be recognized.