## Project Design Phase-I Proposed Solution Template

Date	8th November 2022
Team ID	PNT2022TMID22106
Project Title	A Novel Method for Handwritten Digit Recognition System

## **Proposed Solution:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	This problem is aimed at developing a new handwriting recognition system using ML. A handwritten digit recognition system is one way to address the problem of taking an image of digits and recognizing the digits present in the image.
2.	Idea / Solution description	Developing an AI <b>prediction</b> model <b>that predicts</b> handwritten digits and <b>builds</b> a neural network with hidden layers <b>to</b> train <b>digit recognition</b> .
3.	Novelty / Uniqueness	The system <b>generates</b> not only digit <b>classifications</b> , but also rich <b>descriptions</b> of instantiation parameters <b>that</b> can <b>provide</b> information such as <b>typefaces</b> .
4.	Social Impact / Customer Satisfaction	Handwritten <b>numbers</b> can be <b>recognized</b> easily without strenuous <b>effort</b> . This reduces time and improves <b>everyone's productivity</b> .
5.	Business Model (Revenue Model)	It is used in vehicle <b>number detection</b> , banks <b>to read checks</b> , post offices <b>to sort mail</b> , and many other tasks.
6.	Scalability of the Solution	To achieve higher performance in the field of character recognition and pattern recognition, thanks to its excellent feature extraction and acts as the best classifier.