

Project Design Phase-I
Proposed Solution Template

Date	07 October 2022
Team ID	PNT2022TMID23384
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 the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none">• To classify handwritten digits.• To take an image of a handwritten digit and determine what that digit and character is.
2.	Idea / Solution description	Implementation of an AI predictive model to predict handwritten digits and to construct a neural network trained to detect digits and relevant symbols.
3.	Novelty / Uniqueness	The system not only produces a classification of the digit but also can detect relevant symbols such as mathematical operators and perform necessary calculations if prompted.
4.	Social Impact / Customer Satisfaction	Handwritten digits can be recognized easily without any strenuous efforts. This reduces time and improves productivity for people.
5.	Business Model (Revenue Model)	It is used in online classes as well as the detection of vehicle numbers, banks for reading cheques, post offices for arranging letters, and many other tasks.
6.	Scalability of the Solution	To attain higher performances in the domain of character recognition and pattern recognition, due to its excellent feature extraction and working as best classifier characteristics. As it is a trained model capable of being deployed on the client side, it is highly scalable in terms of in the number of digits that can be recognized.

