

# PROJECT DESIGN PHASE-I

## PROPOSED SOLUTION

Team ID	PNT2022TMID47342
Project Name	A Novel method for Handwritten digit Recognition
Maximum marks	2 Marks

### PROPOSED SOLUTION TEMPLATE:

S.No	PARAMETER	DESCRIPTION
1.	Problem Statement	The problem is recognizing the human handwritten digits by system. The goal is to upload the image of the handwritten digit and identify the digit with accuracy.
2.	Idea/Solution Description	The training and testing has been conducted from publicly available MNIST handwritten databases. Web based, offline and online handwritten digit recognition system is developed by using Convolutional Neural Network.
3.	Novelty/Uniqueness	OCR technology provides higher than 99% accuracy with typed characters in high-quality images. However, the diversity in human writing, spacing differences, and irregularities of handwriting causes less accurate character recognition, as you can see in the featured image.
4.	Social Impact/Customer Satisfaction	Handwritten Digit Recognition has various uses such as less time consumption. It is used in the detection of vehicle numbers, banks for reading cheques, post offices for arranging letters, and other tasks.
5.	Business Model	The main objective of this work is to ensure effective and reliable approaches for recognition of handwritten digits and make banking operations

		easier and error free.
6.	Scalability of Solution	Recently handwritten digit recognition becomes vital scope and it is appealing many researchers because of its using in variety of machine learning and computer vision applications