

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID11565
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 proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Handwriting recognition is one of the compelling research works going on because every individual in this world has their own style of writing .it is the capability of the computer to identify and understand handwritten digits or characters automatically
2.	Idea / Solution description	MNIST dats set is widely used for this recognition process and it has 70000 handwritten digits.we use Artificial neural networks to train these image sand build a deep learning model.web application is created where the user can upload an image of a handwritten digit.this image is analyzed by the model and the detected result is returned on to UI.
3.	Novelty / Uniqueness	we can also check the accuracy of the processed data.
4.	Social Impact / Customer Satisfaction	Handwriting recognition has a variety of applications as electronic form filling, signature verification, automated music symbol notation reader, handwritten ancient document reading, write and send SMS in mother tongue and alternative to realistic keyboards
5.	Business Model (Revenue Model)	we already have many existing keyboard app Adding new feature like gesture so that it can be identified by handwritten recognition. this could increase revenue of the developers company.
6.	Scalability of the Solution	we can also create an extension for handwritten recognition that would be helpful for the user