Project Design Phase-I

Proposed Solution

Date	24 September 2022
Team ID	PNT2022TMID06143
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)	Rajesh who is a cashier needs a way to a quickly enter the account details which are written by account holders so that account holders don't have to wait long.
2.	Idea / Solution description	Using MNIST dataset and Convolutional Neural Network to Perform digits recognition. All of those digits can be converted into electronic words in a text document format, and this data only needs a fraction of the physical storage space of the physical copies.
3.	Novelty / Uniqueness	Unlike OCR which recognise all the character, it can accurately recognise the digits.
4.	Social Impact / Customer Satisfaction	It saves time and work load in sectors which uses this technology.
5.	Business Model (Revenue Model)	In banking sector, numerical detail in cheque can be easily recognised. Pin code details are obtainable in Postal System.
6.	Scalability of the Solution	Able to distinguish numbers in noisy environment. No restriction on number of digits to be recognised.