

**Project Design Phase-I**  
**Proposed Solution**

Date	24 September 2022
Team ID	PNT2022TMID46401
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)	Human brain can adopt to work or task performance after few practices and they can also analysis image with accuracy. So, prediction of handwritten digit is performed with different algorithm for converting handwritten digit to digital form and attain maximum accuracy in less time. Prediction can be done with help of many algorithms for better analysis. Some find it difficult to understand people handwriting so digitalization is done to reduce the difficulty. More hundreds of datasets are used for recognition of handwritten digit for better analysis.
2.	Idea / Solution description	Implementation of Handwritten digit recognition using various algorithms such as SVM, CNN, IBM Cloud and the IBM Cognos for analytic. Conversion of handwritten digit to computerized format using DL algorithm. Recognition of digit with less time and high accuracy.
3.	Novelty / Uniqueness	The product will have high quality outcome within in no time. Also predict digits with high accuracy.
4.	Social Impact / Customer Satisfaction	Usually, semi-blinded people face the problem of identifying the exact digit wherein if they are using this software, they will be able to use it wisely.
5.	Business Model (Revenue Model)	Banking sector for recognition of account number from cheque. Can create a profitable business with research and expertise. Postal zip codes recognition in postal sector. Data entry in form through recognition of digit.
6.	Scalability of the Solution	This software can help in all the banking sectors such as private banks, Government banks, and Urban banks in which they will be able to figure out the exact digit in order to prevent fraudulent transactions. It not only solves problems in banks but it also helps many individuals.