**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID20676 |
| 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.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | It is easy for the human to perform a task  accurately by practicing it repeatedly and  memorizing it for the next time. Human brain  can process and analyse images easily. Also,  recognize the different element present in the  images. In this competition, the goal is to  correctly identify digits from a dataset of tens  of thousands of handwritten images and  experiment with different algorithms to learn  what works well and how techniques compare |
|  | Idea / Solution description | • propose the program for errorless  recognition. And adding codes and  processing tools |
|  | Novelty / Uniqueness | The primary motto of our model is to convert  handwritten digits into digital form. In addition to that it also recognises special characters and produce output in digital form. |
|  | Social Impact / Customer Satisfaction | • Postal department and courier  services can easily find the digit  written…  • Old peoples who will have eye sight  issues with handwritten digits |
|  | Business Model (Revenue Model) | Our system can be implemented in banking,  post office, data entry etc.., |
|  | Scalability of the Solution | • Character recognition is a key step  toward artificial intelligence and  computer vision field. To test the  classification performance, pattern  classification and machine learning  • communities use the problem of  handwritten digit recognition as a  model.  • In this paper, recognition of  handwritten digit using convolutional  neural network (CNN), high accuracy of  MNIST digit classification |