**Project Design Phase-I**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 19 September 2022 |
| Team ID | PNT2022TMID52672 |
| 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** |
|  | Problem Statement (Problem to be solved) | * The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits. * It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes. * The handwritten digit recognition system is a way to tackle this problem which uses the image of a digit and recognizes the digit present in the image. |
|  | Idea / Solution description | * It is the capability of a computer to fetch the mortal handwritten integers from different sources like images, papers, touch defences. * It allows user to translate all those signature and notes into electronic words in a text document format and this data only requires far less physical space than the storage of the physical copies. |
|  | Novelty / Uniqueness | Accurately recognize the digits rather than recognizing all the characters like OCR. |
|  | Social Impact / Customer Satisfaction | * AI developed the app called Handwritten digit Recognizer. * It converts the written word into digital approximations to identify characters before churning out a digital approximation. * As it is designed to solve real-world problems, it should be highly reliable and trustworthy in every way, and users throughout the world should be able to use it effectively. |
|  | Business Model (Revenue Model) | * This system can be integrated with traffic surveillance cameras to recognize the vehicle’s number plates for effective traffic management. * Can be integrated with Postal system to identify and recognize the address and the pin-code details easily. |
|  | Scalability of the Solution | There is no limit in the number of digits it can be recognized. |