# Project Design Phase-I
# Proposed Solution Template

| Date | 8th November 2022 |
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| Team ID | PNT2022TMID03553 |
| Project Title | **A Novel Method for Handwritten Digit Recognition System** |

**Proposed Solution:**

| S.No. | Parameter | Description |
|-------|-----------|-------------|
| 1. | Problem Statement (Problem to be solved) | **This** problem **is aimed** at developing a **new handwriting** recognition system using **ML. A** handwritten digit recognition system is **one** way to **address** the problem **of taking an** image of **digits** and **recognizing** the **digits** present in the **image.** |
| 2. | Idea / Solution description | Developing an AI **prediction** model **that predicts** handwritten digits and **builds** a neural network with hidden layers **to** train **digit recognition.** |
| 3. | Novelty / Uniqueness | The system **generates** not only digit **classifications,** but also rich **descriptions** of instantiation parameters **that** can **provide** information such as **typefaces.** |
| 4. | Social Impact / Customer Satisfaction | Handwritten **numbers** can be **recognized** easily without strenuous **effort.** This reduces time and improves **everyone's productivity.** |
| 5. | Business Model (Revenue Model) | It is used in vehicle **number detection,** banks **to read checks,** post offices **to sort mail,** and many other tasks. |
| 6. | Scalability of the Solution | To **achieve** higher **performance** in the **field** of character recognition and pattern **recognition, thanks** to its excellent feature extraction and **acts** as **the** best **classifier.** |