

Project Design Phase-I
Proposed Solution Template

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| Team ID | PNT2022TMID30607 |
| Project Name | Project – A Novel Method For Handwritten Digit Recognition |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

| S.No. | Parameter | Description |
|-------|--|---|
| 1. | Problem Statement (Problem to be solved) | <p>Statement: The handwritten digit recognition is the capability of computer applications to recognize the human handwritten digits.</p> <p>Description: It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes.</p> |
| 2. | Idea / Solution description | <p>1. It is the capability of a computer to fete the mortal handwritten integers from different sources like images, papers, touch defences.</p> <p>2. 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.</p> |
| 3. | Novelty / Uniqueness | Accurately recognize the digits rather than recognizing all the characters like OCR. |
| 4. | Social Impact / Customer Satisfaction | <p>1. Artificial Intelligence developed the app called Handwritten digit Recognizer.</p> <p>2. It converts the written word into digital approximations and utilizes complex algorithms to identify characters before churning out a digital approximation.</p> |
| 5. | Business Model (Revenue Model) | The system can collaborate with banks to speed up the cheque approval process which improves customer experience. |
| 6. | Scalability of the Solution | This project will help us to detect digits more precisely. Also we can develop this model to recognize alphabets. |