

PROJECT DESIGN PHASE - I

PROPOSED SOLUTION

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID32148 |
| Project Name | A Novel Method for Handwritten Digit Recognition System |

| S.No. | Parameters | Description |
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| 1. | Problem Statement (problem to be solved) | <ul style="list-style-type: none">The human handwritten digits are not perfect and it can be made with different sizes and shapes.The handwritten digit recognition is the capability of computer applications to recognise the human handwritten digits. |
| 2. | Idea / Solution Description | <ul style="list-style-type: none">Handwritten digit recognition using MNIST dataset.It is a major project made with the help of Convolutional Neural Network.It basically detects the scanned images of handwritten digits. |
| 3. | Novelty / Uniqueness | Having a highly reliable and high accurate model with negotiable loss percentage. |

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| 4. | Social Impact / Customer satisfaction | <ul style="list-style-type: none"> • Easy to recognize the digits by a simple process. • Everyone can easily upload the image containing handwritten digits, and get the output in a quicker way. |
| 5. | Business Model (Revenue Model) | <ul style="list-style-type: none"> • This handwritten digit recognition system can be useful in business perspective as well. • Industries and organization can use this system, as their part of work. • Banks, Postal service can use this to recognize the digit code written by humans. |
| 6. | Scalability of the solution | <ul style="list-style-type: none"> • Our model is going to deploy in a web. So, anyone on the internet can access the service provided by the system. |