# **Project Design Phase-I – Problem Solution Fit**

# Project Title: A Novel Method for Handwritten Digit Recognition System

#### Team ID: PNT2022TMID06779 Define Explore 6. CUS L'OMER 5. AVAILABLE SOLU 10NS CC AS CS 1. CUS L'OMER Clients aíe those who use Despite the fact that theie Internet connections that unfeliable, lack of laptops mobile, and the of cameras that are suitable. handwiitten numbeis at AS, aie cuiiently alteinatives to wolk of in institutions like this stiategy, they aie not banks, colleges, tíains, etc. differentiate veíy accuíate, íeliable, oí Computeís have a difficult piocessing handwiitten since they aie inaccuiate and can have a íotationvaíiationand invaíjant. widefange of piefeiences. íespec the impeífec handwiiting found in a vaíiety of contexts, such as I'he use of handwiitten iecognition, pioblem can iesolved by identifying the in documents, pictuies, and touch input. that is piesent in a J&P 2. JOBS-IO-BE-DONE / PROBLEMS 9. PROBLEM ROO L'CAUSE 7. BEHAVIOUR BE RC Due to seveíal issues including deteiioiating eyesight, a lack of time, etc., handwiitten digits aie moie challenging to lead because they aie wiitten in a valiety of fonts and size. Undeistanding and analyzing the Finding the softwaie scíibblednumbeís is íecognizes numbeís most fast and accuíately. I'he client ieally difficult. iequests dependable inteinet Moie tiaining data and top-notch cameías. aíeneeded. (Example) customess Dim illumination, of the change in legulations. pooieyesight, difficult to distinguish the digits.

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#### 3. **■**\*RIGGERS

**Identify strong TR** 

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- One of the easiest methods to communicate with a computeí and leaín the language is thíough infoímation exchange, which is made simple.
- Accurately and efficiently gathering the data.

4. EMOTIONS: BETORE / ATTER



Befoie: Unsuie, Piotected, and Confused.

AIIER: Confident, upiight, and ieasonable

#### 10. YOUR SOLU 11ON

 I he Convolutional Neuíal Netwoík (CNN) method is used in the solution to accuíately iecognize handwiitten digits. enhancing woikei píoductivity and decieasing costs foi the business.

### 8. CHANNELS of BEHAVIOUR



SL

Invest in modein electionics and make suiethey woik.

## **ONLINE**

A feliable internet connection is needed for both photo processing and uploading.