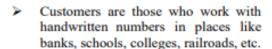
**Project Title:** A Novel Method Of Handwritten Digit Recognition System

J&P

## 1. CUSTOMER SEGMENT(S) CS

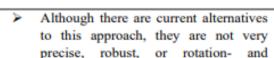


## 6. CUSTOMER CONSTRAINTS

- Lack of reliable internet connections, unavailability of gadgets like mobile phones and computers, inaccessibility of appropriate cameras.
- Because handwritten numbers are not always accurate and might have a wide variety of tastes, it is a difficult work for the computer.
- This issue can be solved by using an image of a digit to identify the digit that is present in the image, which is done through handwritten digit recognition.

## 5. AVAILABLE SOLUTIONS

variation-invariant.



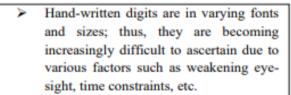
Team ID: PNT2022TMID05327

The ability of a computer to honor the mortal handwritten characters from manv sources. including photographs, papers, and touch input.

## 2. JOBS-TO-BE-DONE / PROBLEMS

- It is really challenging to comprehend and analyze the handwritten numbers.
- More training data required.
- Hard to recognize digits, dim lighting, weak eyesight.

## 9. PROBLEM ROOT CAUSE



## 7. BEHAVIOUR

- Finding the best software that more quickly and accurately identifies digits.
- Customer wants reliable internet connections and high-quality cameras.

# Focus on J&P, tap into BE, understand

Explore AS, differentiate

## 3. TRIGGERS

Identify strong TR

- Obtain the data quickly and accurately.
- The exchange of information is made simple and is one of the simplest ways to speak with a computer and grasp the language.

## 4. EMOTIONS: BEFORE / AFTER

**BEFORE**: Uncertain, Reserved, and Perplexed.

AFTER: Assured, Upright, and Rational.

## 10. YOUR SOLUTION

The solution aims to reliably recognize handwritten digits using Convolutional Neural Network (CNN) algorithm. Therefore, reducing costs for the company and increasing worker productivity.

# 8. CHANNELS OF BEHAVIOUR 8.1 ONLINE

The processing and uploading of the photographs both require a steady internet connection.

## 8.2 OFFLINE

Purchase contemporary electronics and confirm their functionality.