**J&P** 

TR

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## 1. CUSTOMER SEGMENT(S)

One who wants to extract digits from handwritten text images

### 6. CUSTOMER CONSTRAINTS

Unclear image will not give accurate results.

### 5. AVAILABLE SOLUTIONS

Traditional systems of handwriting recognition have relied on handcrafted feature and a large amount of prior knowledge. Explore AS, differentiate

СН

Extract online & offline CH of BE

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

People can struggle to read others' handwriting. The handwritten digits are not always of the same size, width, orientation as they differ from writing of person to person, so the general problem would be while classifying the digits.

## 9. PROBLEM ROOT CAUSE

The issue is that there's a wide range of handwriting - good and bad. This makes it tricky for programmers to provide enough examples of how every character might look.

## 7. BEHAVIOUR

RC

Customers must try with clear image and neat handwriting to get accuracy in digits

## 3. TRIGGERS

Define CS, fit into C

番

Identify strong TR &

When there is need for recognition of handwritten digits

# 4. EMOTIONS: BEFORE / AFTER

frustration, exhausted > curious, satisfied

## 10. YOUR SOLUTION

It uses Artificial Neural Network to recognize them. Neural Network is used to train and identify written digits. After training and testing, the accuracy rate reached 99%. This accuracy rate is very high.

#### 8. CHANNELS of BEHAVIOUR

8.1 ONLINE
Extract online channels from behaviour block

#### 8.2 OFFLINE

Extract offline channels from different handwriting styles