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# 1. CUSTOMER SEGMENT(S)

CS

### 6. CUSTOMER CONSTRAINTS

## CC 5. AVAILABLE SOLUTIONS

# AS

✓ Financiers

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fit into

- ✓ Bankers and Clerks
- ✓ Students and Teachers
- ✓ IT Sector
- ✓ Digitalization of Paper works

- Portability
- y i ortability
- Easy Usability
- ✓ Reduced consumption of Time
- ✓ Accurate recognizatoin of Numbers

- ✓ Can Recognize handwritten digits using Convolutional Neural Networks
- Can implement using Recurrent Neural Network

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

J&P

## 9. PROBLEM ROOT CAUSE

### 7. BEHAVIOUR

RC

SL

## BE

- ✓ Recognition is done using OCR method.
- ✓ Can get the actual digits written in Document, PNG or JPEG format
- ✓ Some people's handwritings are hard to recognize
- ✓ And some people have difficulty in sight seeing
- Designing a Robust software system that easily recognizes hardly written numbers that poorly recognizable through bare eyes
- √ To Recognize, User needs to scan the written texts through phone camera or need to upload an image

## 3. TRIGGERS

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- Using this app in a community such as office while clerk scans the document and gets the desired digit text
- 4. EMOTIONS: BEFORE / AFTER
- ✓ Before using this, it is hard to read or recognize digit characters
- ✓ After using this, it increases interactability and usability

### **10. YOUR SOLUTION**

The handwritten recognizing web application helps in recognizing the handwritten digits that uses datasets for training the model for recognizing complicated handwritten texts

### 8. CHANNELS of BEHAVIOUR

8.1 ONLINE

√ Users can upload the Handwritten image and get output

8.2 OFFLINE

√ User need to spend more time on recognizing



EM

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Identify strong



EM