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Project Title: A Novel Method for Handwritten Digit Recognition

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1. CUSTOMER SEGMENT(S)

CS

The customers are the employees who find it difficult to read the numbers written in different handwriting. The customers majorly include bank staff and postal mail order staff.

6. CUSTOMER CONSTRAINTS

CC

Is such a product worth the cost or can we just learn by trial and error?

Does the product really provide accurate results?

5. AVAILABLE SOLUTIONS

AS

Explore AS, differentiate

The customers just ask their colleagues to recognize/ identify the digits written for them. There are no popularised software products offering solutions to such problems.

2. JOBS-TO-BE-DONE / PROBLEM

J&P

The digits written in different handwriting style are difficult to identify and may lead to errors unfortunately.

9. PROBLEM ROOT CAUSE

RC

Everyone has their unique handwriting style and it becomes difficult for the customers to identify them in a fast paced environment. Any error would lead to loss of a bank customer's money or wrong delivery of goods in postal services.

7. BEHAVIOUR

BE

The customer finds the product or service which helps him/her in identifying the digit faster and accurately.

3. TRIGGERS

TR

Feeling that they are lacking in their ability to identify the digits makes them stressed and they slow down in their job.

4. EMOTIONS: BEFORE / AFTER



The customers feel the pressure and take some time to figure out the digit.And afterwards they worry if they made the right choice for the digit in question.

10. YOUR SOLUTION

SL

The project model uses the Convolutional Neural Network which is trained using MNIST dataset and the model is deployed to efficiently recognize the digit in an image.

8. CHANNELS of BEHAVIOUR



8.1 ONLINE

The customer searches for a service being offered online.

8.2 OFFLINE

The customer asks the support of his colleagues for clarification on the digits.

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