Project Design Phase – I: Solution Fit

Project Title: A Novel Method for Handwritten Digit Recognition

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AS

cus on PR, tap into BE, understand RC

Extract online & offline CH of BE

Define CS, fit into CL

1. CUSTOMER SEGMENT(S)

Bank Employees who process the cheques

6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES

Poor network connectivity

cs

- Does not fall in budget limit
- Too complex for the less technically gifted

5. AVAILABLE SOLUTIONS PROS & CONS

- Currently the bank employees
- manually process the cheques
- They may misinterpret the digits Experience of the bank employee can detect fraudulent cheques

cus on PR, tap into BE, understand RC

2. PROBLEMS / PAINS + ITS FREQUENCY

- Saves time by automating the
- manual process
- Reduces the cost of extra manpower
 The chances of manual errors creeping in is reduced

9. PROBLEM ROOT / CAUSE

Because humans are prone to making errors, and these lead to delays in processing of cheques

7. BEHAVIOR + ITS INTENSITY

Instead of giving lines for the particulars, banks can provide boxes where the particulars can be filled

3. TRIGGERS TO ACT

Other banks processing their cheques more efficiently sparks competitiveness

4. EMOTIONS BEFORE / AFTER

Before: Frustrated and annoyed **After:** Happy and pleased

10. YOUR SOLUTION

ЕМ

- To solve this problem, we are going to make use of CNN to predict the handwritten digits on the cheque and will take it as an input.
- It also reduces the high dimensionality of the images without losing its information

8. CHANNELS of BEHAVIOR

NLINE

They will scour the internet for alternative products

OFFLIN

If the product meets their expectations, then they will spread a good word of mouth.