Project Title: A Novel Method for Handwritten Digit Recognition System

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

- ✓ Tradesman and Merchant
- ✓ Teachers and Students
- ✓ Clerks and Capitalist
- ✓ Medical Industry
- ✓ Property Registration Office

6. CUSTOMER CONSTRAINTS — CC

- ✓ Portable to carry on
- ✓ Ease of access
- ✓ Processing Time Decreased
- ✓ Recognizes the exact text and digits

5. AVAILABLE SOLUTIONS — AS

- ✓ Using Convolutional Neural Network we can recognize the texts
- ✓ we can use Recurrent Neural Networks(RNN)

Explore AS, differentiate

Focus on J&P, tap into

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

- ✓ Images, Scanned PDFs is used to recognize texts
- ✓ Recognizing texts and digits using Optical Character Recognizing method.

9. PROBLEM ROOT CAUSE — RC

- ✓ Sightseeing incompetency would cause difficulty to recognize
- ✓ It is hard to recognize various peoples handwriting

7. BEHAVIOUR — BE

- ✓ Camera or Captured Image is used to recognize characters in the written records and notes of people
- ✓ Sturdy and solidly developed application software that empowers people to recognize hardly and flimsy written texts

Focus on J&P, tap int   C

Identify strong TR & EM

3. TRIGGERS — TR

- ✓ A person using this software system and his friend will be engaged once he finds the process of extracting text and digits

4. EMOTIONS: BEFORE / AFTER — EM

- ✓ it is crucial to interpret or recognize digit characters before
- ✓ After adopting the Handwritten Recognition system it increases interactability and usability

10. YOUR SOLUTION — SL

- ✓ A Novel Handwritten recognition system helps in recognizing the handwritten digits that uses MNIST datasets for training the model for recognizing complicated handwritten texts

8. CHANNELS of BEHAVIOUR — CH

8.1 ONLINE

- ✓ Output is acquired through the uploading the image

8.2 OFFLINE

- ✓ Recognizing time for user increased due to offline usage

Extract online & offline CH of BE

AMALTAMA