Problem-Solution fit canvas 2.0

To improve the efficiency and accuracy of the digit recognition using CNN

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) | CS

Who are all looking for the clear recognition of handwritten digits.

Customers from postal mail sorting, bank cheque processing, data entry form, etc.

6. CUSTOMER CONSTRAINTS | CC

A camera which can capture images clearly.

Knowledge to use this model.

5. AVAILABLE SOLUTIONS | AS

Google lens is available but it is not useful when there is no internet.

Also the Accuracy is not adequate.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS | J&P

It is a hard task for the humans, because handwritten digits are not perfect and can be written in different styles and sizes.

9. PROBLEM ROOT CAUSE | RC

Each individuals has unique hand writing. So, it is unable to identify the digits.

7. BEHAVIOUR | BE

To use different kind of inputs to find the errors. Finally, find the digit recognition system , which contains high accuracy rate and quick completion of task.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS | TR

While Recognizing digits it provides invalid output and shows error.

4. EMOTIONS: BEFORE / AFTER | EM

Before : They become very stressed because of the error happened or wrong output.
After: They become stress free because their job is done very easily and quick manner.

10. YOUR SOLUTION | SL

For the greatest population , the hand written patterns were different from one to another. So increase the efficiency and accuracy of the digit recognition by adding more number of digits into MNIST to get the accurate results.

8. CHANNELS of BEHAVIOUR | CH

Online :

In online users use browsers and application to access. In online, instant updates will come. So it is very helpful.

Offlne :

The Customers use offline application to access digit recognition system , to solve their problems.

Extract online & offline CH of BE

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