Project Title: Novel Method For Handwritten Digit Recognition

Project Design Phase-I - Solution Fit

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

The Customers Who Is Defined To Work With Reading Handwritten Digits Like Banking Sectors, Schools, Colleges, Railways, Films, etc

6. CUSTOMER CONSTRAINTS — CC

Vague Image Will Not Give Accurate Results. Customers Believe Alternatives Might Result In Mistakes, Flaws, And Might Not Be Practical.

5. AVAILABLE SOLUTIONS — AS

There Were No Popular Programs And Softwares To Detect The Handwritten Digits, So They Check With Other People To Confirm What Number It Is. Traditional Systems Of Handwriting Recognition Have Relied On Handcrafted Feature And A Large Amount Of Prior Knowledge.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

People Feel Difficulties To Read Others Handwriting. There Is A Wide Range Of Handwriting Around The World.It May Cause Errors When Dealing With Rugged Handwriting.

9. PROBLEM ROOT CAUSE — RC

Customers Find It Difficult To Read The Handwritten Digits As Different People Use Different Writing Styles And Different Languages. This Makes It Tricky For Programmers To Provide Enough Examples Of How Every Character Might Look.

7. BEHAVIOUR — BE

Customer Should Strive With Clear Image And Neat Handwriting To Get Accuracy In Digits.

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

Identify strong TR & EM

3. TRIGGERS — TR

To Recognize Handwritten Digit And Predict Text.

4. EMOTIONS: BEFORE / AFTER — EM

Thwart, Exasperate, Infuriate, Embitter.

10. YOUR SOLUTION — SL

Neural Network is Used to train And Identify Written digits. Recognition System Helps In Recognizing Handwritten Digits That Uses MNIST dataset for Training The Model. The Digits Will Be Identified From The Picture With Digit. After Training And Testing The Accuracy Rate Will Be Reached 99%.

8. CHANNELS of BEHAVIOUR — CH

8.1 ONLINE

Exploiting The Software That Is Offered in The online Platform. Enlisting The Assistance Of Nearby Peoples In Order to Identify The Numbers That Their Client Have Scribbled.

8.2 OFFLINE

Pluck out The Offline Channels From Different Styles.

Identify strong TR & EM