Project Title: **Project Design Phase-I - Solution Fit Template** **Team ID:** PNT2022TMID48440

1. CUSTOMER SEGMENT(S) CS

The Customers who deal with handwritten digits like Banking sectors, schools, colleges railways , firms , etc.

6. CUSTOMER CONSTRAINTS CC

They believe that the alternatives will result in errors and faults and will be inconvenient.

5. AVAILABLE SOLUTIONS AS

There are no widely used software's to detect handwriting; instead, they check with other people to affirm what number it is.

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

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

Handwritten digits can be difficult to understand and interpret at times. It may cause errors when dealing with rough handwriting.

9. PROBLEM ROOT CAUSE RC

We face numerous challenges in handwritten number recognition. because of different people's jotting styles and the lack of Optical character recognition This investigation offers an in-depth comparison of various machine literacy and deep literacy

7. BEHAVIOUR BE

Finding the best software for detecting accurate digits in a more efficient manner

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

Identify strong TR & EM

3. TRIGGERS TR

To obtain the numbers accurately and quickly.

4. EMOTIONS: BEFORE / AFTER EM

Feels frustrated and sad when numbers are not entered.

10. YOUR SOLUTION SL

A solution to this problem is the Handwritten digit recognition system,which uses a picture of a digit and recognises the digit present in the image. Convolutional Neural Network model built with PyTorch and applied to the MNIST dataset to recognise handwritten digits.

8.CHANNELS OF BEHAVIOR CH

Using software that is available on the internet. Obtaining assistance from those nearby in order to recognise the digits written by their customers.

Identify strong TR & EM