Problem – Solution Fit Template			
Date	19 September 2022		
Team ID	PNT2022TMID15720		
Project Name	Project - xxx		
Maximum Marks	2 Marks		

Project Design Phase-I

Project Title: A Novel Method For Hand Written Digit Recognition

Team ID: PNT2022TMIDxxxxxx

Define CS fit into

Focus on J&P, tap into BE, understand

1. CUSTOMER SEGMENT(S)

A officer in a post office receiving letters and couriers in a written format.

6. CUSTOMER CONSTRAINTS

It is a difficult because most person's handwriting will not similar, scanner or camera work perfect in perfect light condition, It took to much time to process.

Various people's handwriting should be used for train the AI. That should improve the accuracy. Traning the model in a proper way to get the betteroutcome.

5. AVAILABLE SOLUTIONS

2. JOBS-TO-BE-DONE / PROBLEMS

He/She Wants To Store The Pincode Or Mobile Number Etc... Into A Storage Space . So A Hand Written Digit Recognition System Is Needed To Solve Those Problems.

9. PROBLEM ROOT CAUSE

A small recognition error may cause the big difference in the end result.

7. BEHAVIOUR

Before Processing The Image Application Should Verify The Photo Was Taken In Correct Angle And Correct Lighting. User Should Completely Aware Of Instruction Of Application.

3. TRIGGERS



To do the work in a efficient manner. So that the officer getting satisfied.

4. EMOTIONS: BEFORE / AFTER



BEFORE: They eagerly wants to finish is work quickly and easily .

AFTER: If its working fine they feels better.

10. YOUR SOLUTION

text well as pen-up/pen

format.

The handwritten recognition model takes animage

an input and compare the preprocessed digits with

trained datasets and give the output of digits as a



8. CHANNELS of BEHAVIOUR

8.1 ONLINE

Online handwriting recognition involves theautomatic conversion of text as it is written on a special digitizer where a sensor picks up the pen-tip movements as well as pen-up/pen-down switching.

CH

8.2 OFFLINE

K-NN combined with preprocessing methodscan achieve great performance apart from Neural Network when used as a classification algorithm

in offline handwritten digit recognition.