Project Design Phase-I	
Problem - Solution Fit Template	
Date	19 September 2022
Team ID	PNT2022TMID41168
Project Name	Project - xxx
Maximum Marks	2 Marks

Project Title: A Novel Method For Hand Written Digit Recognition Team ID: PNT2022TMIDxxxxxx

1. CUSTOMER SEGMENT(S)  A officer in a post office receiving letters and	6. CUSTOMER CONSTRAINTS  It is a difficult because most person's handwriting will not similar, scanner or camera work perfect in	5. AVAILABLE SOLUTIONS
couriers in a written format.	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 Al. That should improve the accuracy. Traning the model in a proper way to get the better outcome.
2. JOBS-TO-BE-DONE / PROBLEMS He/She Wants To Store The Pincode Or	9. PROBLEM ROOT CAUSE  A small recognition error	7. BEHAVIOUR
Mobile Number Etc Into A Storage Space . So A Hand Written Digit	may cause the big	D (and Daniel and The Lance
Recognition System Is Needed To Solve Those Problems.	difference in the end result.	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

The handwritten recognition model takes an image as

an input and compare the preprocessed digits with the

trained datasets and give the output of digits as a text well as pen-up/pen format.

# 8. CHANNELS of BEHAVIOUR



8.1 ONLINE

SL

Online handwriting recognition involves the automatic

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.

#### 8.2 OFFLINE

K-NN combined with preprocessing methods can

achieve great performance apart from Neural Network when used as a classification algorithm

in offline handwritten digit recognition.