Team ID: PNT2022TMID35498 PROBLEM - SOLUTION FIT: PROJECT NAME:

A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM

1.CUSTOMER SEGMENT

MNIST is a dataset which is widely used for handwritten digit recognition system

6. CUSTOMER CONSTRAINT

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

2.JOBS-TO-BE-DONE/PROBLEMS:

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

7. BEHAVIOUR

Find a right product that recognizes the digits written in all kinds of handwriting accurately and fast

3.TRIGGERS TO ACT

The dataset consistof 60,000 trainingimages and 10,000 test images

8.CHANNELS of BEHAVIOR

The ability of a computer to recgnize the human handwritten digits image,paper, touchscreen

4. EMOTIONS: BEFORE / AFTER

Time consuming ,Manual effort ,Irritated

After: Fast, Less manual effort , Happy customers

9.PROBLEM ROOT CAUSE

Wide variety of writing styles used by different people.

5.AVAILABLE SOLUTIONS

The applications of digit recognition include in postal mail sorting,bank check process

10. YOUR SOLUTION:

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