

## **PROBLEM - SOLUTION FIT: PROJECT NAME :**

### **A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM**

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<b>1.CUSTOMER SEGMENT(S):</b>  The Customers who deal with handwritten digits like Banking sectors , schools , colleges , railways , firms , etc.	<b>5. AVAILABLE SOLUTIONS</b>  There are no widely used software's to detect handwriting; instead, they check with other people to affirm what number it is.	<b>8. CHANNELS OF BEHAVIOUR</b>  Using software that is available on the internet. Obtaining assistance from those nearby in order to recognise the digits written by their customers.
<b>2. JOBS-TO-BE-DONE/PROBLEMS:</b>  Handwritten digits can be difficult to understand and interpret at times. It may cause errors when dealing with rough handwriting.	<b>6.CUSTOMER CONSTRAINT(S):</b>  They believe that the alternatives will result in errors and faults and will be inconvenient.	<b>9. PROBLEM ROOT CAUSE</b>  We face numerous challenges in handwritten number recognition. because of different people's jotting styles and the lack of Optic character recognition This investigation offers an in-depth comparison of various machine literacy and deep literacy
<b>3. TRIGGERS</b>  To obtain the numbers accurately and quickly.	<b>7. BEHAVIOUR</b>  Finding the best software for detecting accurate digits in a more efficient manner	<b>10. YOUR SOLUTION</b>  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.
<b>4. EMOTIONS :BEFORE/AFTER</b>  Feels frustrated and sad when numbers are not entered.		