

Project Design Phase-I Solution Fit Template

Project Title: A Novel Method For Handwritten Digit Recognition System

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Define CS, fit into CC	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.	Explore AS, differentiate
	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			

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 recognizes the digit present in the image. Convolutional Neural Network model built with PyTorch and applied to the MNIST dataset to recognize handwritten digits.

8. CHANNELS OF BEHAVIOUR **CH**

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