

VSB Engineering College, karur-639111

Project Design phase – I

Problem Solution fit

Project name: A Novel Method For Handwritten Digit Recognition System

Team Id : PNT2022TMID33471

1.Customer segments:-

Types of Customers who are going to this project are

- Banks
- Post Office
- Traffic Management

6.Customer constrains:-

The customer needs a solution which will solve the problems in recognizing vehicle numbers, reading cheques in bank, arranging letter in posts office and that solution should fulfil the following needs.

- Cost efficient
- Less size
- Time efficient

5.Available solutions

We can give solutions to this problem by using the convolutional neural network in deep learning which is used as a classifier of the image and more specifically Keras sequential model.

2.Jobs to be done :-

The Customers want to automate the recognition of handwritten digits which reduces the manual work and minimize the time consumption.

9.Problem route cause:-

The route cause for Handwritten digit recognition is basically to detect the scanned images of handwritten digits.

7.Behavior:-

The behavior of a handwritten digit recognition system is to convert handwritten digits into machine readable formats.

3.Triggers:-

In banks many problems are faced in reading cheques the triggers the handwritten digits recognition system and this makes banking operations easier.

4.Emotions:-

This makes the works in banks easier

10.Solution:-

Our solution for this project is to give environment sustainable Product for recognizing handwritten digits and scanned images with best efficiency.

8.Channels of behavior:-

The system not only produces a classification of digits but also a rich description of instantiation parameters which can yield information such as writing style and they are effective in obtaining good recognition accuracies.