# Project Title: A Novel Method for Handwritten Digit Recognition System

J&P

- > In order to help the people to recognize all the languages, one system must be designed.
- > Same languages can be written in different formats by different people. So, a system must be designed to recognize all these formats in the same languages.

9. PROBLEM ROOT CAUSE

RC

- > Preventable medication errors affect more than 1.5 million people around the world annually. These errors are caused by unclear, illegible handwriting of doctors
- > Illegible handwriting leads to loss of information in post cards.
- > Migrants couldn't understand other than regional languages.

Explore AS, differentiate

> In the past they have developed handwritten recognition system for English alphabets using Neural networks.

Team ID: PNT2022TMID51176

- > Sunspot drawing handwritten character recognition system based on deep learning.
- > The cons in the system is it can recognize only the specific languages.

BE

Method Digit Recognition system to meet all their expectations.

Define

CS, fit into CC

Customer can use a Novel

### 3. TRIGGERS



When other application works efficiently in lower bandwidth.

#### 4. EMOTIONS: BEFORE / AFTER



- User will become happy when the system Is very fast and reliable.
- The user will become frustrated when it takes long time for functioning.

#### 10. YOUR SOLUTION

- A Novel Method for Handwritten digit recognition system using MNIST dataset uses convolution Neural Network to train these images and build a deep learning model.
- Web Application is created where the user can upload an image of a handwritten digit.
- This image is analyzed by the model and the detected result is returned on to UI.

#### 8. CHANNELS OF BEHAVIOUR



## 8.1 ONLINE:

In the online mode, user can upload image file and will get the most probable recognition text.

### 8.2 OFFLINE:

In the offline mode, user can store the image file in this device, which needs to be recognized later.