

## Ideation Phase

### Brainstorm & Idea Prioritization Template

Date	08 October 2022
Team ID	PNT2022TMID49347
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 Marks

## Step-1: Team Gathering, Collaboration and Select the Problem Statement

[illegible]

## Step-2: Brainstorm, Idea Listing and Grouping

2

### Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

#### Umesh

The hand writing must be legible

Only the numeric character should be darkened in the image

Feedback should be enabled

High accuracy

#### Sneha

Enhanced dataset should be used

Convert the text digits into electrical form

DBN algorithm can be used

Digit as output

#### Maruthupandiyar

DNN algorithm can be used

Variation in character style

Mainly used in number plate detection

Concern about data

#### Kowsalya

Low time consumption

Image as output

Digits of different style recognised

User interface of the system

#### Suvinkumar

CNN algorithm can be used

Accuracy should be displayed

Display accuracy of detection

Analysing the article of the method

#### Kiruthika

Online and offline detection is available

Keras library can be used

The number must be dark enough

Reduce human efforts

3

### Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

🕒 20 minutes

Only the numeric should be darkened in the image

Digit as output

Image as output

DBN algorithm can be used

DNN algorithm can be used

CNN algorithm can be used

The handwriting must be legible

Accuracy should be displayed

Keras library can be used

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Mainly used in number plate detection

Convert the text digits into electrical form

Digits of different style recognised

## Step-3: Idea Prioritization

4

### Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

🕒 20 minutes

