

## A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION

Hand written digit recognition, is the ability of a computer to recognize the human handwritten digits from different sources. In handwritten recognition digits, characters are given as input. The model can be recognized by the system. A simple Artificial Neural Network (ANN) has an input layer, an output layer and some hidden layers between the input and output layer.

10 minutes to prepare

1 hour to collaborate

2-8 people recommended

# Before vou collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

① 10 minutes

Team gathering Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

Learn how to use the facilitation tools Use the Facilitation Superpowers to run a happy and productive session.

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# Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

5 minutes

Handwriting number recognition is a challenging problem researchers into this area for so long especially in the recent years. In our study there are many fields concern with numbers for example, checks in banks or recognizing numbers in car plate, the subject of digit recognition appears. A system for recognizing isolated digits may be as an approach for dealing with such application.



Stay in topic.

Key rules of brainstorming To run an smooth and productive session

Encourage wild ideas.

If possible, be visual.



## PROBLEM STATEMENT



Defer judgment.

Listen to others.

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

10 minutes

VINOTH T

SIVA SAIRAM S

Brainstorm

human errors

Processed with minimal human intervention

Identifies information being incorrectly put into the system

It saves the form information

SOORYA J

VISHAL S

### 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.

APPLICATION

RECOGNITION

reliable approaches for recognition

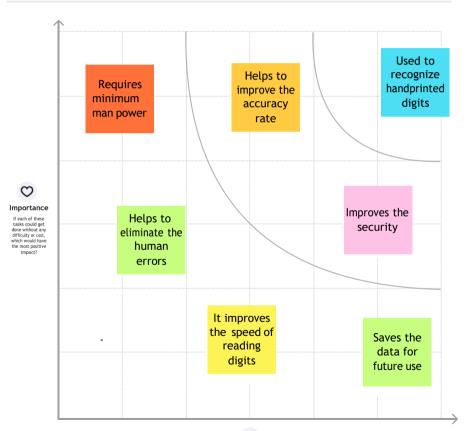
SECURITY

Saves the data for future

### 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.

① 20 minutes





Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)



## After vou collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

Quick add-ons

Share the mural
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

Export the mural

Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

Keep moving forward



Define the components of a new idea or

Open the template



Customer experience journey map Understand customer needs, motivations, and obstacles for an experience.

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and threats (SWOT) to develop a plan. Open the template\_

Share template feedback

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