


Ideation Phase

Brainstorm & Idea Prioritization Template




Date	19 September 2022
Team ID	PNT2022TMID15720
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 Marks

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




Brainstorm & idea prioritization


Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

 10 minutes to prepare
 1 hour to collaborate
 2-8 people recommended

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 **Before you collaborate**


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

 10 minutes

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


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

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

[Open article](#) 

1 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


PROBLEM


A Novel Method for Handwritten Digit Recognition


Handwriting recognition is a challenging task because every person in this world has their own style of writing. It is the capability of the computer to automatically identify and understand the handwritten digits. Due to the technological advancements, everything is being digitalized to reduce human effort. Hence, handwritten digit recognition is a need-of-the-hour task in many real-time applications. MNIST data set, which has 70000 handwritten digit samples, is widely used for this recognition process.


Key rules of brainstorming


To run an smooth and productive session


 Stay in topic.

 Encourage wild ideas.

 Defer judgment.

 Listen to others.

 Go for volume.

 If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm






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

🕒 10 minutes

kasamsetty Rahul

 Recognize Text	Identification of language in the given text 	Acquisition of input from the user 
Create GUI to predict the digit 	Identification of Stroke classification 	Training of models 

Kolla Venakata Gopi Krishna

 Pixel Detection	Time Interval 	 Pixel Size
 Classification of digit	Aa Text Classification	 Symbol Classification

Mukesh Manikanadan

 Identation	 Capital letters identification	 Color identification
 Number of lines to be counted	Space detection 	 Paragraph Spacing

katari Tejesh Chowdary

 Grabbing character to a grid	 Predict/sense the image	 Acquisition
 Learning Modules	 Pixel Detection	 Re-Sampling

Step-3: Idea Prioritization

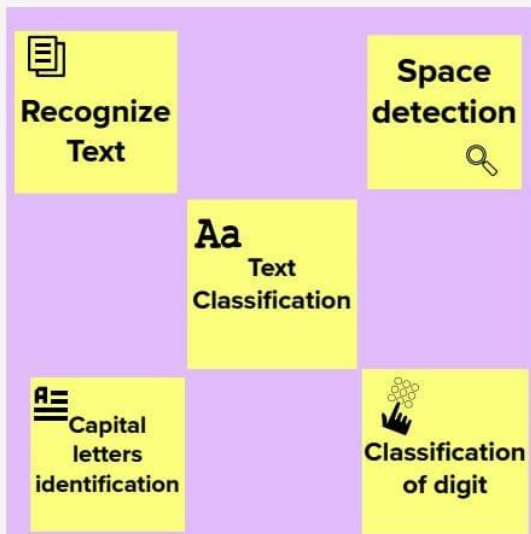
3

Group ideas

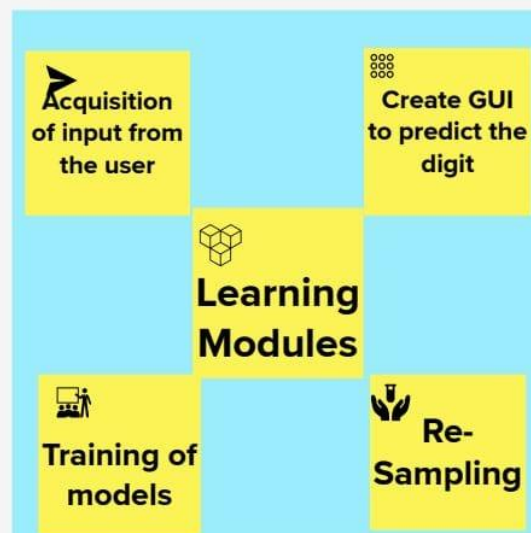
Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

🕒 20 minutes

IDENTIFICATION



MODULES

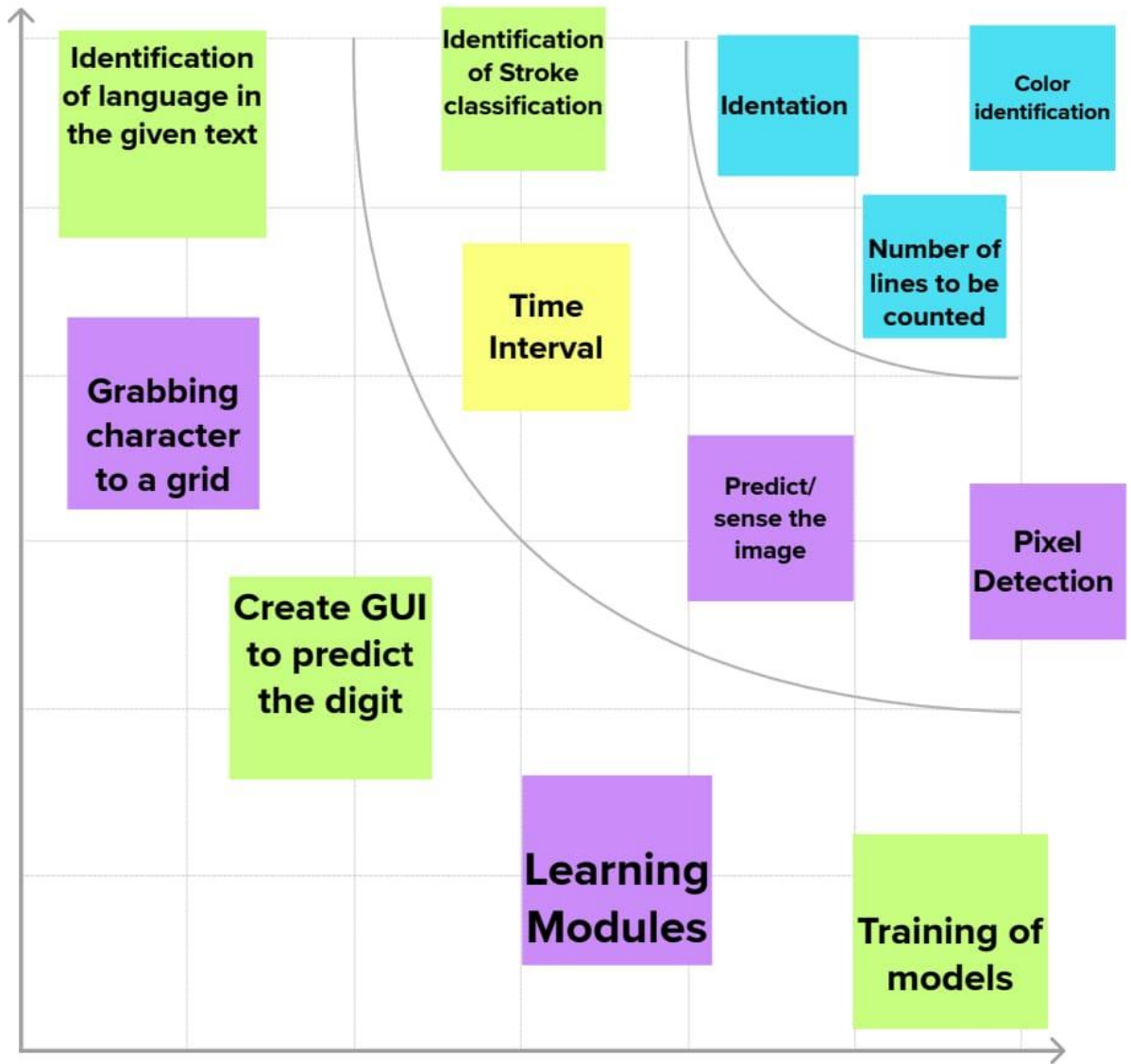


4

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

**Feasibility**

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