

**Ideation Phase**  
**Brainstorm & Idea Prioritization Template**

Date	20 November 2023
Team ID	Team-592436
Project Name	Crime Vision: Advanced Crime Classification With Deep Learning
Maximum Marks	4 Marks

**Brainstorm & Idea Prioritization Template:**

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Reference:

<https://app.mural.co/t/crimevision9935/m/crimevision9935/1698997972217/4addc6eb218dd444cdc09ebb4a0de2141cc23401?sender=u18f73b4e3cc610f534060596>

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

## Template



## 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



## 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

**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.

**c** Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.

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## 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

Question	Description
Who does the problem affect?	Specific groups, organizations, customers, etc
What are the boundaries of the problem ?	e.g. organizations, workflow, geographic, student segments, etc
What is the issue?	What is the impact of the issue? What impact is the issue causing? What will happen when it's fixed? What would happen if we didn't solve the problem?
When does the issue occur?	When does it need to be fixed?
Where is the issue occurring?	Only in certain locations, processes, products, etc?
Why is it important that we fix the problem?	What impact does it have on the business or customer? What impact does it have on all stakeholders

Who does the problem affect

1. Society
2. Law enforcement organizations
3. Crime investigation agencies
4. Forensic experts

What are the boundaries of the problem

1. Technical limitations of concerned organizations
2. Data availability
3. Geographic and demographic influence in the types of crimes committed

### What is the issue

1. Need for accurate crime identification, classification and prevention
2. Handling large amounts of data efficiently to gain useful insights

When does the issue occur

When there is a need to identify and analyze crimes based on visual evidence, crimes are a continuous concern since they are unpredictable.

Where is the issue occurring?

1. Crime scenes
2. Surveillance systems
3. Legal proceedings
4. Forensic laboratories

### Why is it important that we fix the problem

1. To ensure public safety
2. To offer justice timely
3. To recognise crime trends and patterns
4. To strengthen prevention of crimes

### PROBLEM

How might we leverage deep learning techniques to analyze images or videos and classify crimes accurately?

### 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

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Brainstorm

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

10 minutes

TIP

You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

Person 1

Crime trend analysis

Real-time surveillance system (using data from CCTVs)

Forensic evidence classifier

Person 2

incorporating multiple modes of data (ex: audio, text, video, images etc.)

mobile app version for on-the-go crime scene analysis

real-time alerts to authorities when system detects high-confidence crime events

Person 3

Consider factors such as location, time of day, and socio-economic factors while classifying crimes

Consider privacy and ethical issues when collecting and using data

Use deep learning to predict crime hotspots and allocate resources more efficiently.

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

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas or themes within your mind.

real time crime monitoring and alerts

Real-time surveillance system (using data from CCTVs)

real-time alerts to authorities when system detects high-confidence crime events

ideas for enhanced analysis

Consider factors such as location, time of day, and socio-economic factors while classifying crimes

Use deep learning to predict crime hotspots and allocate resources more efficiently.

crime classification and analysis

Crime trend analysis

Forensic evidence classifier

incorporating multiple modes of data (ex: audio, text, video, images etc.)

application considerations

mobile app version for on-the-go crime scene analysis

privacy and ethical considerations

Consider privacy and ethical issues when collecting and using data

## Step-3: Idea Prioritization

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### 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

#### TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H** key on the keyboard.

