

Ideation Phase


Brainstorm & Idea Prioritization Template

Date	31 October 2022
Team ID	PNT2022TMID29508
Project Name	Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

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.

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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

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

4

Team gathering

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

5

Set the goal

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

6

Learn how to use the facilitation tools

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

[Open article](#)

PROBLEM

How might we [your problem statement]?

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

NILAMANI M

CHN model is used to extract flood images from satellite images and use them to extract the desired features.

Naturally occurring events that cause problems in development.

To reduce the effects, a webpage is designed.

Huge amount of dataset is needed for training.

Disasters like earthquakes/floods, which are directly using this model.

AI can predict four types of natural disasters, including Earthquakes.

Natural disasters affect the ecosystems.

Detect and classify the type of disaster with high accuracy rate.

VALLI E

Live image data are taken for classification.

To carry out disaster analysis further users upload their photos about their views.

Deep Learning techniques have been applied.

The forecasting of extreme events and the development of flood maps in the prediction.

A natural disaster can causes loss of life and property.

Live images can be captured using webcams and then tested.

With the help of neural network, it is possible to predict floods and other natural disasters.

Large images are needed for better accuracy.

KALAIYARASI P

AI can help emergency teams understand natural hazards, including events in real time.

Many lives have been affected due to the natural disaster.

Developed using deep learning techniques, the sophisticated deep convolutional neural network.

The project supports officials and emergency teams on several devices and a dashboard can be used to give the right results.

Work with open CV.

Reduce the loss of life.

Natural hazards can also be predicted or affected by anthropogenic factors.

Done by using Deep Learning techniques like CNN.

SATHYA A

A model to predict natural disasters, which has been proposed.

To Classify the natural disasters.

It classifies the natural disaster based on the image.

Necessary for the earlier classification.

AI to detect extreme events such as earthquakes.

Classifies based on image.

In particular, AI is playing an increasingly important role in disaster risk reduction.

When combined with satellite data and meteorological data, machine learning can be used to predict and prevent natural disasters.

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 can break it up into smaller sub-groups.

20 minutes

Technical Aspects

Create a user friendly GUI that helps classify the natural disaster.

A large dataset is needed for the accurate model.

Social Impacts

Earlier precaution measures.

Reduce the loss of life.

Availability of Resources

Image data is needed for classification.

Enormous data is needed for the image data.

People Emotions

People emotions on drastic disasters.

People emotions on their beloved families who lost their lives.

TP

You can select a sticky note and let the panel judge to quickly sort to start drawing!

TP

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

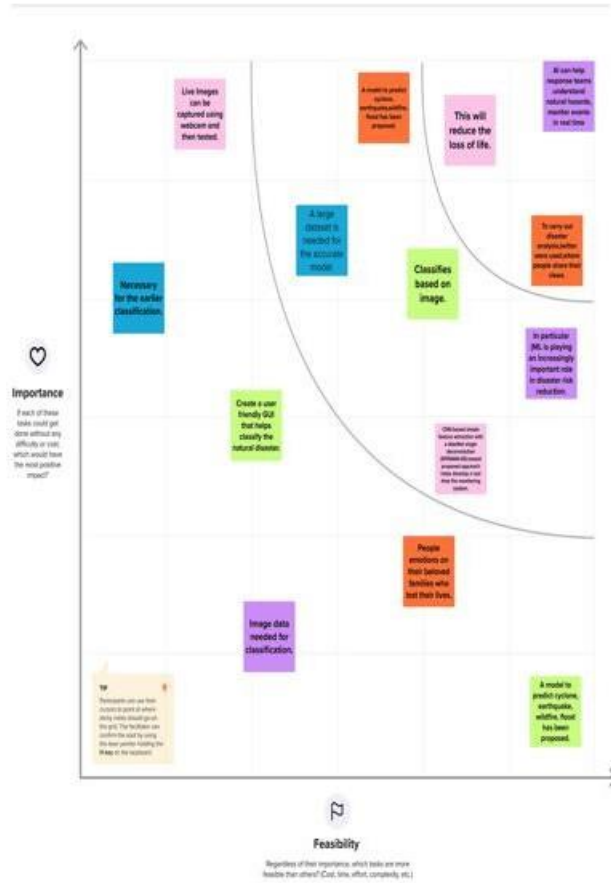
Step-3: Idea Prioritization

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



5

After you 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

- 1 **Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.
- 2 **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

- Strategy blueprint**
Define the components of a new idea or strategy.
[Open the template](#)
- Customer experience journey map**
Understand customer needs, motivations, and obstacles for an experience.
[Open the template](#)
- Strengths, weaknesses, opportunities & threats**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
[Open the template](#)

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