# Ideation Phase Brainstorm Idea Prioritization Template

|  |  |
| --- | --- |
| Date | 08-10-2022 |
| Team ID | [IBM-EPBL](https://github.com/IBM-EPBL)[/**IBM-Project-46383-1660746355**](https://github.com/IBM-EPBL/IBM-Project-46383-1660746355) |
| Project Name | Project – Natural Disaster Intensity Analysis and Classification Using Artificial Intelligence |
| Maximum Marks | 4 Marks |

## Brainstorm & Idea Prioritization Template:

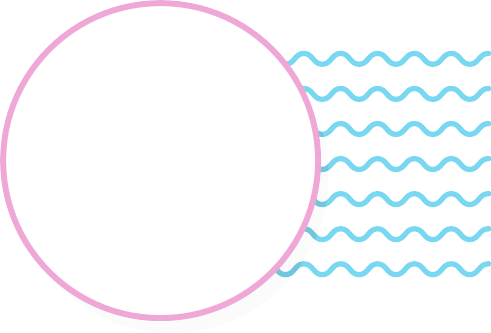
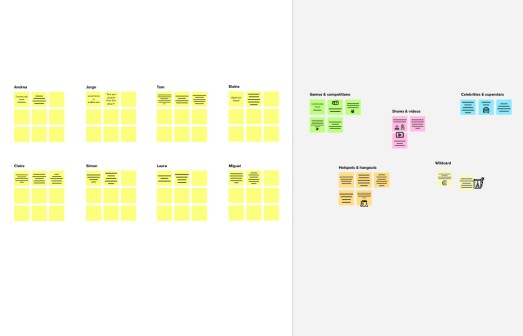
Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out- of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate,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

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.

## Brainstorm & Idea Prioritization for “Natural Disaster Intensity Analysis and Classification Using Artificial Intelligence”:

**Reference**: https://tinyurl.com/35hw5ykj

**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

**Share template feedback**

**Need some inspiration?**

See a finished version of this template to kickstart your work.

**Open example**

**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. **Team gathering**

Define who should participate in the session and send an

invite. Share relevant information or pre-work ahead.

1. **Set the goal**

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

the brainstorming session.

1. **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**

**How might we [your problem statement]?**

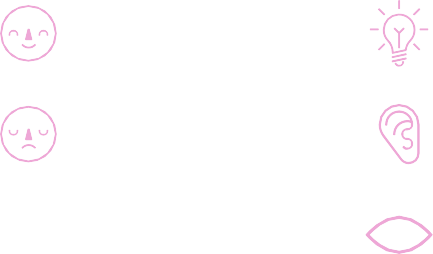
**Key rules of brainstorming**

To run an smooth and productive session

Stay in topic. Defer judgment.

Encourage wild ideas. Listen to others.

Go for volume. If possible, be visual.



**2**

## Brainstorm

**TIP**

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

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

**10 minutes**

**Periyannan.P Keerthiprakash.M**

Large images are needed for better accuracy

It classifies the natural disaster based on the image

Necessary for the earlier classification

To Classify the natural disasters

Naturally occuring events that cause problems to environment

Cyclone intensity calculation

This will reduce the loss of life

To reduce the effects, a webpage is designed

Done by using deep learning techniques like CNN

Natural disasters affect the ecosystem

Live image data are taken for classification

Reduce the loss of life

Classifies based on image

Live images can be captured using webcam and then tested

Many lives have been affected due to the natural disaster

Deep Learning techniques have been applied

Work with open CV

Disasters like

Earthquake , flood, wildfire

are classify using this model

**Naveenkumar.M Maideeshwaran.M**

A natural disaster can causes loss of life and property

AI can help response teams understand natural hazards,monitor events in real time

AI to detect extreme events such as earthquakes

A model to predict cyclone, earthquake, wildfire, flood has

been proposed

developed using deep learning techniques line multilayered deep convolution neural

network

detect and classify the type of disaster with high accuracy

rate



Huge amount of dataset is needed for training

the proposed system's efficiency and accuracy were tested on several datasets and it outperformed other methods to give the

highest result.

CNN model is used to extract flood images from raw imaged and color filters are used to refine the desired

detection

CNN-based simple feature extraction with a Alex Net single deconvalution (SFEwAN- SD)-based proposed approach helps develop areal time fire monitoring

system

Natural hazards can be provoked or affected by anthropogenic

factors

In particular ML is playing an increasingly important role in disaster risk reduction

using two-layer architecture CNN to compare three objec t recog niti on tec hni ques: linear support vec tor

classific ation, li near discri minant analy sis and software

To carry out disaster analysis, twitter

were used, where people share their views

with the help of neural network, it is possible to predict floods and save masses from diaster

The forecasting of extreme events and the development of hazard maps to the detection

A tsunami is a series of waves in a water body caused by the displacement of a large volume of

water.

AI can predict four types of natural disasters including Earthquakes

**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 as themes within your mural.

Technical Aspects

A large dataset is needed for the accurate model.

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

Social Impacts

Reduce the loss of life

Earlier precaution measures

Availability of resources

Image data needed for classification

Enormous data is needed for classifying the image data.

People emotions

People emotions on drastic disasters

Feelings of sadness, anger, and grief are normal reactions to abnormal events such as disasters

**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**

To carry out disaster analysis,twitter were used,where people share their views

A large dataset is needed for the accurate model

To carry out disaster analysis,twitter were used,where people share their

views

livw images can be captured using webcam, and then tested

AI can help response teams understand natural hazards monitor events in real time

This will reduce the loss of life

Necessary for the earlier classification

Scientists look for patterns in data to determine where and when natural disasters are likely to occur

This will reduce the loss of life.

Classifies based on image

Using two-layer architecture CNN to compare three object recognition techniques:linear support vector,linear discriminant analysis and softmax.

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

**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.

People emotions on their beloved families who lost their lives.

live images can be captured using webcam, and then tested

Image data needed for classification



**Feasibility**

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

**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.

1. **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**

**Share template feedback**