Ideation Phase Brainstorm Idea Prioritization Template

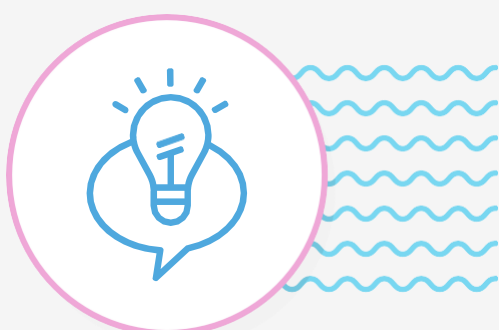| Date	09-10-2022
Team ID	IBM-PROJECT-34611-1660239929
Project Name	Project – Natural Disaster Intensity Analysis and Classification Using Artificial Intelligence
Maximum Marks	4 Marks

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

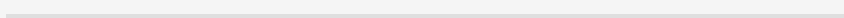## Step-1: Team Gathering, Collaboration and Select the Problem Statement

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

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**

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 →

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.   Encourage wild ideas.

Defer judgment.   Listen to others.

Go for volume.   If possible, be visual.

Brainstorm

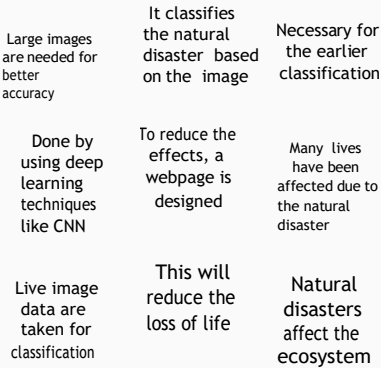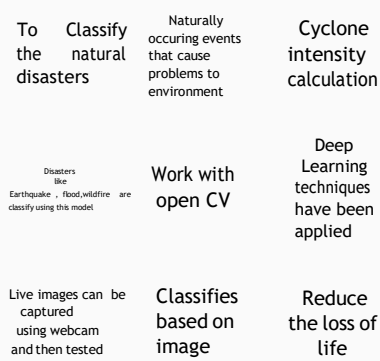Write down any ideas that come to mind that address your problem statement.

🕐 10 minutes

Jaisnavi.D

Large images are needed for better accuracy	It classifies the natural disaster based on the image	Necessary for the earlier classification
Done by using deep learning techniques like CNN	To reduce the effects, a webpage is designed	Many lives have been affected due to the natural disaster
Live image data are taken for classification	This will reduce the loss of life	Natural disasters affect the ecosystem

Jayashree.S.D

To the Classify natural disasters	Naturally occuring events that cause problems to environment	Cyclone intensity calculation
Disasters like Earthquake, flood,wildfire are classify using this model	Work with open CV	Deep Learning techniques have been applied
Live images can be captured using webcam and then tested	Classifies based on image	Reduce the loss of life

Kiruthika.K

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
Natural hazards can be provoked or affected by anthropogenic factors	Huge amount of dataset is needed for training	In particular ML is playing an increasingly important role in disaster risk reduction
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

Geetha.P

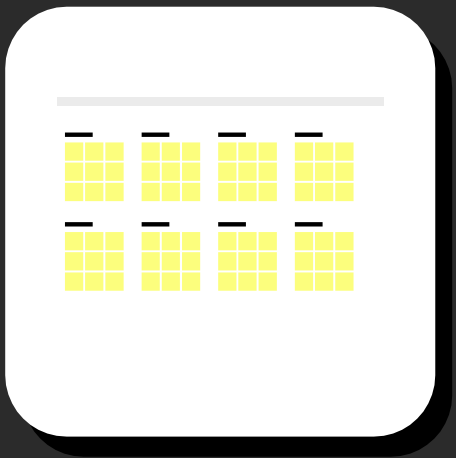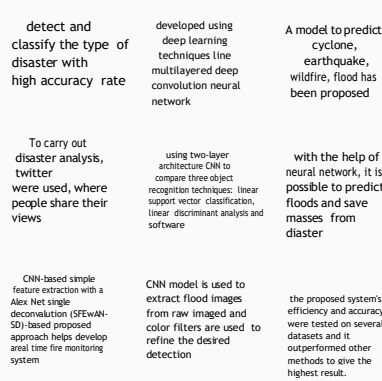|		
detect and classify the type of disaster with high accuracy rate	developed using deep learning techniques line multilayered deep convolution neural network	A model to predict cyclone, earthquake, wildfire, flood has been proposed
To carry out disaster analysis, twitter were used, where people share their views	using two-layer architecture CNN to compare three object recognition techniques: linear support vector classification, linear discriminant analysis and software	with the help of neural network, it is possible to predict floods and save masses from diaster
CNN-based simple feature extraction with a Alex Net single deconvalution (SFEwith-SD)-based proposed approach helps develop areal time fire monitoring system	CNN model is used to extract flood images from raw imaged and color filters are used to refine the desired detection	the proposed system's efficiency and accuracy were tested on several datasets and it outperformed other methods to give the highest result.

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

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

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**

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

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

livw images can be captured using webcam, and then tested

This will reduce the loss of life

Necessary for the earlier classification

This will reduce the loss of life.

Classifies based on image

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

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

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

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 o their beloved families who lost their lives.

Image data needed for classification

live images can be captured using webcam, and then tested

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

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

B **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.