


# **BRAINSTORMING**

Date	01 NOVEMBER 2023
Team ID	Team-591871
Project Name	Prediction of rain fall
Maximum Marks	4 Marks

## Step1: 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

**➔ 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

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**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

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**PROBLEM**

How might we [your problem statement]?

**Key rules of brainstorming**

To run a smooth and productive session

- ➔ Stay in topic. ⚡ Encourage wild ideas.
- ➔ Defer judgment. 👂 Listen to others.
- ➔ Go for volume. 👁 If possible, be visual.

## Step-2: Brainstrom, Idea Listing and Grouping

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### Brainstorm

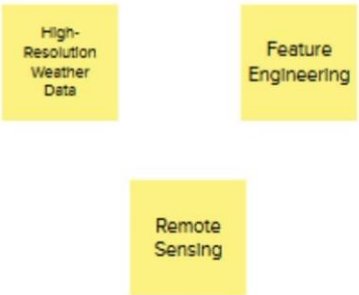
Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

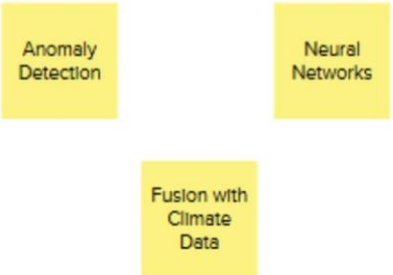
**TIP**

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

#### Person 1



#### Person 2



#### Person 3



#### Person 4



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### 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

#### TIP

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

## Data and Model Enhancement.

High-Resolution  
Weather  
Data

Feature  
Engineering

Time Series  
Analysis

## Predictive Techniques and Accuracy.

• Neural  
Networks

Probabilistic  
Forecasting

Fusion with  
Climate  
Data

## Collaborative and Community Engagement..

Community  
Engagement

Human-  
Machine  
Collaboration

Public  
Awareness

## Data Collection and Integration

Big Data  
Technologies

Integration  
with IoT  
Sensors

Data Quality  
Assurance

## Real-Time and Practical Applications

### Climate Change and Anomaly Detection.

Climate  
Change  
Modeling

Anomaly  
Detection

Real-Time  
Detection

Public  
Safety  
Alerts

Mobile  
Applications

Integration  
with IoT  
Sensors

### Step-3: Idea Prioritization

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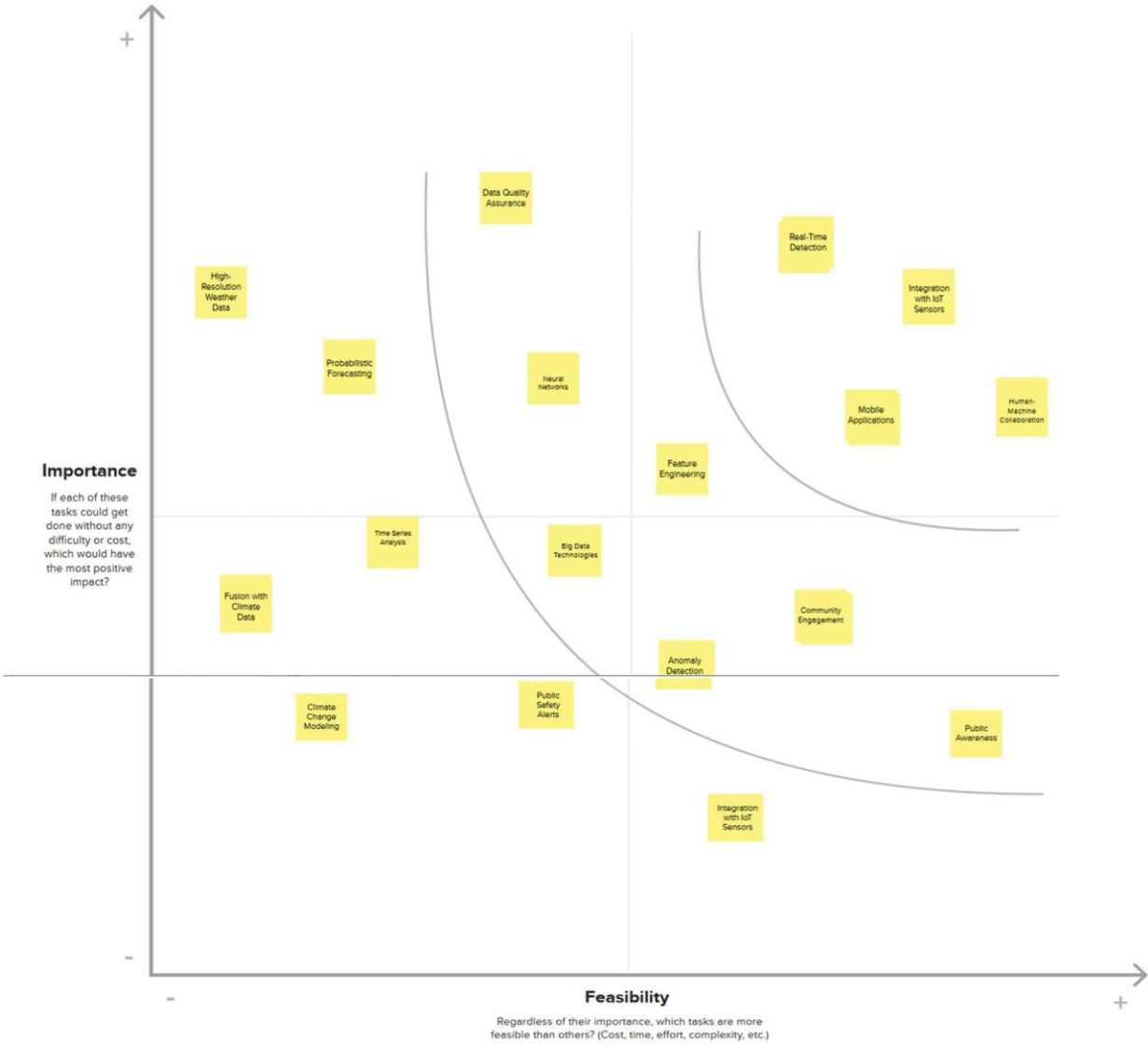
#### Prioritize

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.



#### High Priority:

1. Data and Model Enhancement - Improving data quality and model accuracy is crucial for reliable rainfall predictions.
2. Predictive Techniques and Accuracy - Developing advanced techniques and ensuring accurate predictions are top priorities.
3. Real-Time and Practical Applications - Real-time applications for safety and decision-making should be a high priority.

#### Medium Priority:

4. Data Collection and Integration - Efficient data collection and integration are vital for accurate predictions but require moderate resources.
5. Climate Change and Anomaly Detection - Considering climate change and anomalies is important, but may require additional research and resources.

#### Low Priority:

6. Ethical and Responsible AI - While important, ethical considerations and user education can be managed alongside other priorities.
7. Collaborative and Community Engagement - Community engagement and geographical targeting can be addressed after core model development.
8. (Sub-cluster: Probabilistic Forecasting) - Probabilistic forecasting can be explored after achieving basic accuracy in predictions.

#### Reference Link:

<https://app.mural.co/t/predictionofrainfallusingml3191/m/predictionofrainfallusingml3191/1699006442780/a23dce7ba14c4c8e0c0bcbfa34b9d08049be929b?sender=u6d26c54750efff24b93d8330>