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

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.

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 Statement

The estimation of crop yield at a small scale is crucial to food security and harvest management.Based on previous crop forecasts and soil quality analysis, machine learningis applied to achieve high yields throughout the technology solution.A major purpose of this project is to predict crop yield, which is extremely useful for farmers in planning for harvest and selling thier grain harvests.Predict the optimal crop for our country's corresponding regions and crop seasons using a machine learning algorithm.This project aims to predict yields baseden location and weather data.According to the climate and soil parameters.this study looks at which crops will yield high yields within the given area.

Key rules of brainstorming

To run an smooth and productive session

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

2 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!

Anusiya

- sorting the crop columns according to their categories
- minimum and maximum crop yield is calculated
- A reliable method for predicting crop yields
- The Crop dataset will be analyzed
- Validating the dataset for duplicates
- Importing the required modules
- contextualizing the environment
- Counts of categorical data
- Predicting of yield

Kumar

- Taking a look at the weather
- Insights into crop yields for satellites
- Modeling crop yields with regression analysis
- The condition of the soil and location can be determined by identifying the soil type
- Identifying and analyzing yield gaps at the local, regional, and global level
- A study of crop yield gaps
- Analyzing forecasts based on classification
- Agronomic implications of data analysis
- Utilization of pesticides

Santhosh kumar

- Prognosis of prices
- Fertilization with organic materials
- Make alternative predictions of crop yields
- Assessing the impact of geospatial technology on crops
- Climatological impacts
- Simulation of crop yields

Muthumani

- Analyzing and predicting water sustainability
- Collecting soil health data with drones
- A distributor's loss is estimated by estimating the destruction caused by it
- Moisture and nutrients in soil can be estimated
- Predicting crop yields using bio energy
- Impact of humidity

Anto Rosario

- Analyzing weather condition
- Analysing soil condition
- Assessing the effect of fertilizers
- Organizing the crops according to their variety
- Determine suitable regression algorithm
- Predicting yield

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

Proposed System

- An understanding of the problem
- Gathering Data
- Developing algorithms for evaluation
- Accurately finding information

Parameters in Dataset

- Unidentified
- District name
- Season
- Crop
- Rainfall and floor
- Average humidity
- Cost of cultivation
- Cost production

Advantages

- Predicting productivity
- Identifies crop disease
- Precaution tips for farmers
- Providing assistance to farmers
- Weather Forecast

Architectural components

- Specifications of the crops
- Process data collection and analysis
- Preparations of the dataset for testing and training
- Algorithm classification based on the ML

Crop model engine

- Soil Module
- Crop Module
- Climate Module
- Management Module
- Satellite Module
- Historical climate condition

Limitations

- Errors in input data
- Errors in measurement data
- Sampling Error

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

Importance
If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

- An understanding of the problem
- Gathering of data
- Specification of the crops
- Process of data collection and analysis
- Errors in measurement data
- Sampling error
- Developing algorithms for evaluation
- Accurately finding information
- Preparations of the dataset for testing and training
- Algorithm classification based on the ML
- Bias in field growth data
- Impractical compensation models
- Predicting assistance to farmers
- Identifies crop disease
- Precautions tips for farmers
- Providing assistance to farmers
- Weather forecast
- Soil module
- climate module
- Historical climate condition
- Management module
- satellite module

Feasibility
Regardless of their importance, which tasks are more

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

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

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

Need some inspiration?
See a finished version of this template to kickstart your work.
Open example