

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	06 May 2023
Team ID	NM2023TMID15487
Project Name	Project - Uncovering the Hidden Treasures of the Mushroom Kingdom: A Classification Analysis
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.

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



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.

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1


Define your problem statement

The problem statement for uncovering the hidden treasures of the Mushroom Kingdom using classification analysis is to develop a predictive model that can accurately classify different types of mushrooms based on their physical characteristics. The goal is to identify which mushrooms are safe to eat and which are poisonous, as well as to uncover any hidden patterns or relationships between different mushroom species. This analysis could potentially aid in the identification of new species or help to prevent accidental consumption of poisonous mushrooms.

⌚ 5 minutes


PROBLEM


How might we classify different types of mushrooms based on their physical characteristics and to identify which mushrooms are safe to eat and which are poisonous, as well as to uncover any hidden patterns or relationships between different mushroom species?





To run a smooth and productive session


Key rules of brainstorming


 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

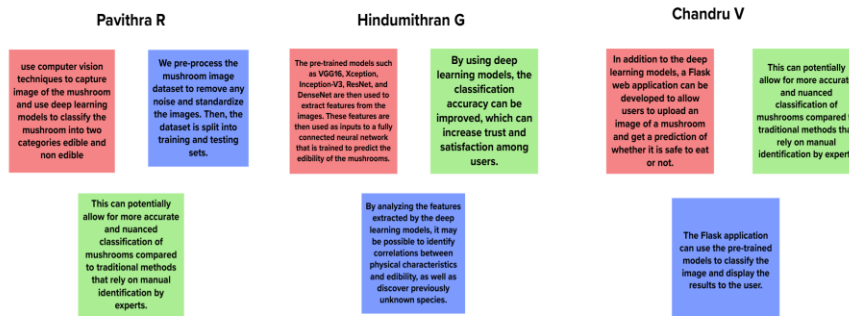
Brainstorm

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

🕒 10 minutes

TIP

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



3

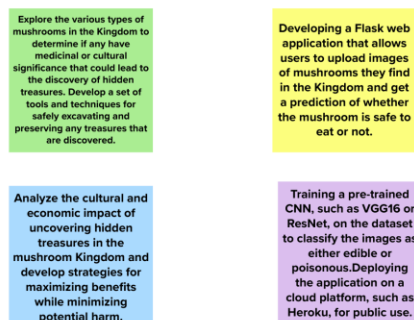
Group ideas

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

TIP

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



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

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.

Importance

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

Feasibility

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

There are pre-trained CNN models available, and Flask provides a flexible and lightweight framework for developing web applications. However, the feasibility of uncovering hidden treasures in the mushroom Kingdom through this approach is unclear, as it is not clear how the two objectives are connected.

Use Imaging technology to uncover hidden treasures in the mushroom Kingdom, researchers may use a variety of imaging technologies, such as ground-penetrating radar, LIDAR, or multispectral imaging.

Use Geographic Information Systems to map the locations of treasures or mushrooms in the mushroom Kingdom, researchers may use geographic information systems (GIS) software. This software can help to visualize and analyze data related to location, terrain, and other environmental factors.

Introduce Artificial Intelligence and Machine Learning to classify images of mushrooms in the mushroom Kingdom as edible or poisonous, researchers may use Artificial Intelligence (AI) and Machine Learning (ML) techniques. This may involve developing a convolutional neural network (CNN) using popular frameworks like TensorFlow, PyTorch, or Keras. Flask can be used to create a user interface that accepts images and returns the corresponding classification.

Involve Cloud Computing, if the project deals with a large amount of data or requires significant computational power, researchers may use cloud computing platforms like AWS, GCP, or Azure. These platforms can provide scalable storage and computing resources to process the data.

Use deep learning models like CNN, VGG16, Xception, InceptionV3, ResNet, and DenseNet for mushroom classification is their ability to learn and extract features from large datasets, including those with complex and subtle variations in physical characteristics.