Ideation Phase

Brainstorm & Idea Prioritization Template

Date	29 April 2023
Team ID	NM2023TMID03654
Project Name	Project - Covid Vision: Advanced COVID-19 Detection from Lung X-Rays with Machine Learning or Deep Learnings
Maximum 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

Step-2: Brainstorm, 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

Person 5 | Person 6 | Person 7 | Person 8

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.
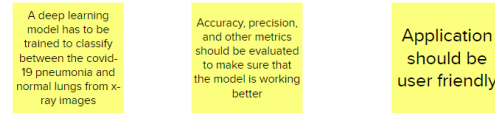
⏱ 20 minutes

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

A deep learning model has to be trained to classify between the covid-19 pneumonia and normal lungs from x-ray images

Accuracy, precision, and other metrics should be evaluated to make sure that the model is working better

Application should be user friendly

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.

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

Required large dataset to train the model

Accuracy, precision, and other metrics should be evaluated to make sure that the model is working better

Deep learning model to predict covid 19 from X-rays

Application should be user friendly

Using pre-trained model is better for classification

performance of the model should be fast

Model should be tested with huge amount of unseen data to verify that it is reliable

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