Ideation Phase Brainstorm & Idea Prioritization Template

Date	06 May 2023
Team ID	NM2023TMID17493
Project Name	CovidVision: Advanced COVID-19 Detection
	from Lung X-rays with Machine Learning or
	Deep Learnings
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

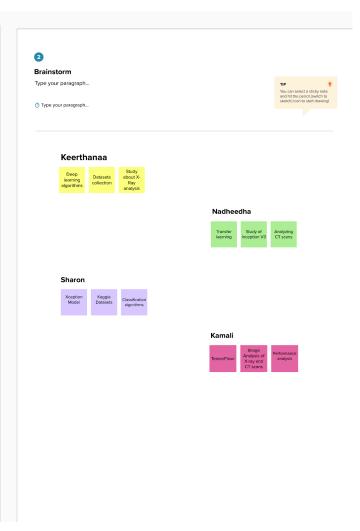
Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, 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.

Problem Statement COVID-19 (coronavirus disease 2019) is an infectious disease caused by severe acute Medical images and artificial intelligence (AI) have been found useful for rapid assessment to provide treatment of COVID-19 infected patients.One of the biggest challenges following the Covid-19 pandemic is the detection of the disease in patients. To address this challenge we have been using the Deep Learning Algorithm to build an image recognition model that can detect the presence of Covid-19 from an X-Ray or CT-Scan image of a patient's lungs. Transfer learning has become one of the most common techniques that has achieved better performance in many areas, especially in medical image analysis and classification. We used Transfer Learning techniques like Inception V3, Resnet50, Xception V3 that are more widely used as a transfer

learning method in medical image analysis and they are

highly effective.



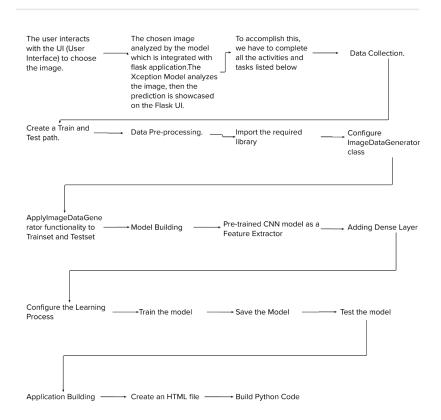


Group ideas

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.







The main idea here is to analyze the image using Xception model and then to predict it on Flask UP. Then after collecting training and testing the data is preprocessed and the model is built. For feature Extraction, we use a pre-trained CNN model. Then we add a dense layer and configure the learning process then to train and save the model. Finally, the model is tested and the application is built and the python code is built



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.

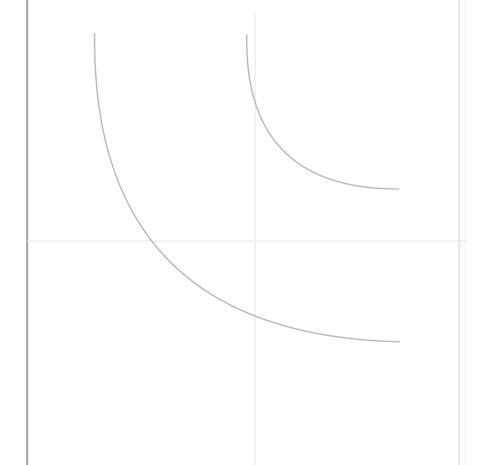
Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the H key on the keyboard.





Importance

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





Feasibility