

Date	23 October 2023
Project Name	Deep Learning Model for Eye Disease Prediction

Brainstorming Ideas and Voting

Brainstorming ideas is a creative process where a group generates a list of potential solutions, suggestions, or concepts for a specific problem or project. Voting in brainstorming involves participants selecting and prioritizing their favorite or most promising ideas from the list to determine which ones should be pursued further.

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.

[Open article](#) ➔

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Define your problem statement

eye diseases, specifically focusing on conditions such as diabetic retinopathy, glaucoma, macular degeneration, and cataracts. Eye diseases are a significant global health concern, and early detection and intervention are crucial to prevent irreversible vision loss. Traditional methods for detecting these diseases often rely on time-consuming and costly clinical examinations by ophthalmologists, leading to delays in diagnosis and limited accessibility to healthcare services.

5 minutes

PROBLEM

How might we [your problem statement]?

Key rules of brainstorming

To run an smooth and productive session

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



Need some inspiration?

See a finished version of this template to kickstart your work.

[Open example](#) ➔

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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

- Develop a deep learning model to predict eye diseases from retinal images.
- Use machine learning to identify patterns in retinal images that are associated with eye disease.
- Develop an User interface to interact with the patients easily

Person 2

- Use image processing to develop new ways to visualize retinal images.
- Use image data to track the progression of eye disease over time.

Person 3

- Develop an mobile application for the predicting model
- Develop a deep learning model to predict eye diseases from retinal images.

Person 4

- Keep track of the patterns it is used and generate the reports automatically
- Store the data in database and use it for further reference

Person 5

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-
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Person 6

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Person 7

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Person 8

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-
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Grouping the ideas

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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.



Develop a deep learning model to predict eye diseases from retinal images.

Use machine learning to identify features in retinal images that are associated with eye disease.

Use image processing to develop new ways to visualize retinal images.

Use image data to track the progression of eye disease over time.

Idea prioritization

Idea prioritization is the process of ranking or assessing ideas based on specific criteria such as feasibility, impact, cost, or strategic importance to determine which ideas should be implemented or pursued first.

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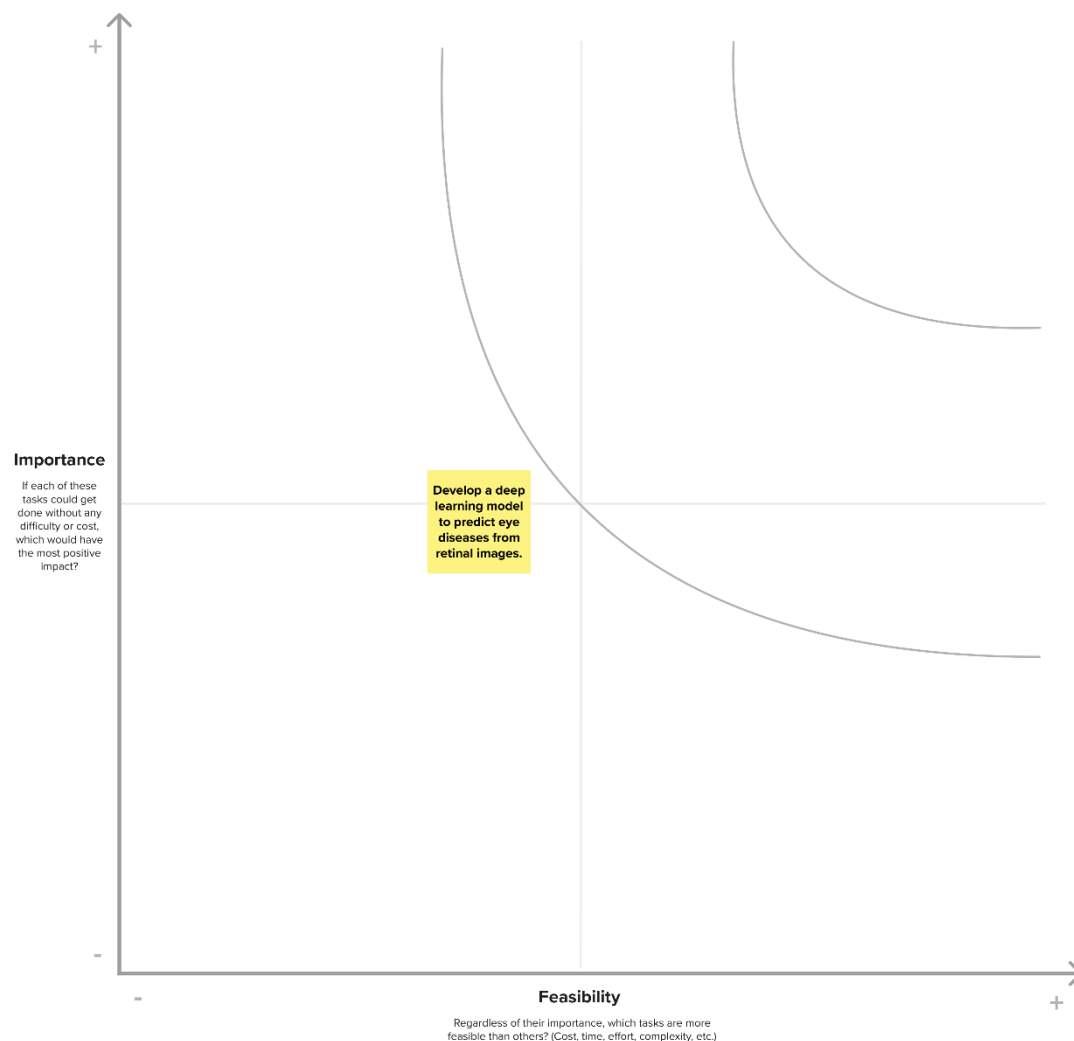
Prioritize

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.



Certainly, here's a description for why the idea of "Developing the deep learning model for eye disease prediction" was chosen over the other options:

Retinal images are images of the back of the eye, including the retina, optic disc, and blood vessels. They can be used to diagnose a variety of eye diseases, including glaucoma, diabetic retinopathy, and macular degeneration. A deep learning model is a type of artificial intelligence (AI) model that can learn to identify patterns in data. Deep learning models have been shown to be very effective at diagnosing diseases from medical images, such as X-rays and MRI scans. One way to develop a deep learning model for eye disease prediction is to use a dataset of retinal images that have been labeled with the eye diseases present in the images. The model can then be trained to learn the relationship between the appearance of the retina and the presence of eye disease. Once the model is trained, it can be used to predict the presence of eye disease in new retinal images. This could be used to develop a screening tool for eye diseases, or to help doctors diagnose eye diseases more accurately.

