

Date	18 October 2022
Team ID	PNT2022TMID13778
Project Name	Project - Early Prediction of Chronic Kidney Disease using Machine Learning
Maximum Marks	4 Marks

### 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

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### 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](#) →

### 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

Early Prediction of Chronic  
Kidney Disease using  
Machine Learning

#### 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.

## 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 remove a sticky note and add it to the group(s) that it best describes (or create a new group!).

**Gugapriya M**

Define the problem statement	Collect the relevant dataset
Samples of urine and blood	Identifying the symptoms

**Harshithaa S**

Detection of Kidney disease	Collection of resources and Function level of kidney
Acknowledgement of damage	Understanding CKD

**Abitha R**

Regular monitoring of Kidney function	Recovery time and follow up
Consult a Nephrologist	Diagnosis method

**Algalya M**

Train dataset with relevant platform	Accuracy of prediction
Screening for people at risk of CKD	Prevention strategies

**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**  
Don't worry if you're not 100% sure you've created a cluster or that it's not organized and changed but make sure it does so names will be your guide.

**Symptomatic Prediction**

Diagnosis of the disease	Function level of Kidney with level of damage	Laboratory oriented samples
Final report of Diagnosis	Understanding CKD	Monitoring of functions

**Algorithm for computations**

Collect the relevant dataset	Train dataset with relevant platform	Accuracy of prediction
Overall Report using algorithm	Prevention strategies	Awareness of Kidney problems

## 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

**Importance**

If any of these notes could get done without any of "Reality or cost," which you all have the most positive impact?

**Feasibility**

Remember of their importance, which tasks are more feasible to run (cost, time, effort, complexity, etc.)

**TIP**  
Participants can use their number to point at where their notes should go on the grid. The facilitator can use an arrow to point to any one note to move the group to the next step.