Ideation Phase
Brainstorm & Idea Prioritization Template

Date	19 October 2022
Team ID	PNT2022TMID27379
Project Name	Machine Learning based Vehicle Performance Analyzer
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization:

Step-1: Team Gathering, Collaboration and Select the Problem Statement

Step-2: Brainstorm, Idea Listing and Grouping

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!

Roopan
- Finding out the Service cycle for the vehicle
- Finding out the health of the car using ML
- Finding out the usability and condition of engine

Ailvin Lawrence
- Finding out the life of cylinders
- Finding out the change in acceleration
- Finding out the decrease in horsepower from the date of purchase

Ashvanthi
- Finding the life of tire by the history data of driving
- Finding out the lifetime of the battery
- Suggestion of changing the Suspension

Arunmozhivarman
- Prediction of price if maintained properly
- Prediction of the loss of engine-oil velocity
- Prediction of next service if driven rashly

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.

Major services
- Finding out the usability and condition of engine
- Finding out the health of the car using ML
- Finding out the Service cycle for the vehicle

Performance analyser
- Finding out the decrease in horsepower from the date of purchase
- Finding out the change in acceleration
- Finding out the life of cylinders

Minor services
- Finding out the lifetime of the battery
- Suggestion of changing the Suspension
- Finding the life of tire by the history data of driving

Prediction using algorithm
- Prediction of price if maintained properly
- Prediction of the loss of engine-oil velocity
- Prediction of next service if driven rashly

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**

♡

Importance

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

Finding out the life of cylinders

Finding out the usability and condition of engine

Finding out the Service cycle for the vehicle

Finding the change in acceleration

Prediction of next service if driven rashly

Finding out the health of the car using ML

Suggestion of changing the Suspension

Prediction of price if maintained properly

Finding out the decrease in horsepower from the date of purchase

Prediction of the base of engine oil velocity

Finding out the lifetime of the battery

Finding the life of tires by the history state of driving

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.

🏳 **Feasibility**

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