Date	19 September 2022
Team id	PNT2022TMID10674
Project Name	Machine Learning based Vehicle performance Analyzer
Maximum Marks	4 Marks

Choose your best "How Might We" Questions

Share the top 5 brainstorm questions that you created and let the group determine where to begin by selecting one question to move forward with based on what seems to be the most promising for idea generation in the areas you are trying to impact.

10 minutes

QUESTION

How might we differentiate the project from the existing ones?

QUESTION

How might we include wide range of variables to consider for analysis and what are those variables?

QUESTION

How might we train the model to improve the efficiency and effectively analyze the vehicle's performance?

QUESTION

How might we divide the tasks among ourselves to bring in effective and quicker development?

QUESTION

How might we eliminate factors that might be included in previous models that interferes with our goal?

2

Brainstorm solo

Have each participant begin in the "solo brainstorm space" by silently brainstorming ideas and placing them into the template. This "silent-storming" avoids group-think and creates an inclusive environment for introverts and extroverts alike. Set a time limit. Encourage people to go for quantity.

10 minutes

Mothishwara Navinkumar

history of the vehicle.	The amount of damage sustained by the vehicle	Outdoor environmental factors that affects the performance
Impact of different kinds of roads on the vehicles.	Role of different fuel mechanisms in vehicle performance	Relation between power and reliability of a vehicle
role of manufacturing process on performance	Impact of vehicle's weight on the vehicle's performance	Relation between performance and class of vehicles

Jawahar

Customer experience with vehicle	Constant feed back collection	location of the customer
Routine of the customer	Customers driving habits	User knowledge on operation of vehicle
Refueling habits	Users average speed maintainence	User average distance travelled a daily.

Poovarasan

Impact of dust particles on engine performance	Impact of different coolant on vehicle' engine	Automation performance
Performance of different engine classes	Comparison between v8, v10, v12 engines	comparison of engine volume and performance
Impact of temperature on electric engines	Impact of other utilities on engine's performance	Comparison of vehicle's that use and don't use navigational facilities

kaviyarasan

Aerodynamics of the vehicle	Shape of the vehicle	Length and width of the vehicle.
No. of accidents occurred to a vehicle	performance in long vs short trips	performance differentiation based on tire change
performance vs safety analysis	Features to performance identification	Vehicle service frequency

3

Brainstorm as a group

Have everyone move their ideas into the "group sharing space" within the template and have the team silently read through them. As a team, sort and group them by thematic topics or similarities. Discuss and answer any questions that arise. Encourage "Yes, and..." and build on the ideas of other people along the way.

15 minutes

TIP

You can use the **Voting session** tool above to focus on the strongest ideas.

By increasing the frequency of the vehicle monitoring the performance of the vehicle can be analyzed and measures can be taken.

By enabling the vehicle to adapt to different regions, the high differentiation of vehicle performance can be stabilized.

By selecting fuel that works best in terms of chemical composition can increase acceleration and also reliablity

By implementing a light weight body that supports better aerodynamics can increase performance efficiency

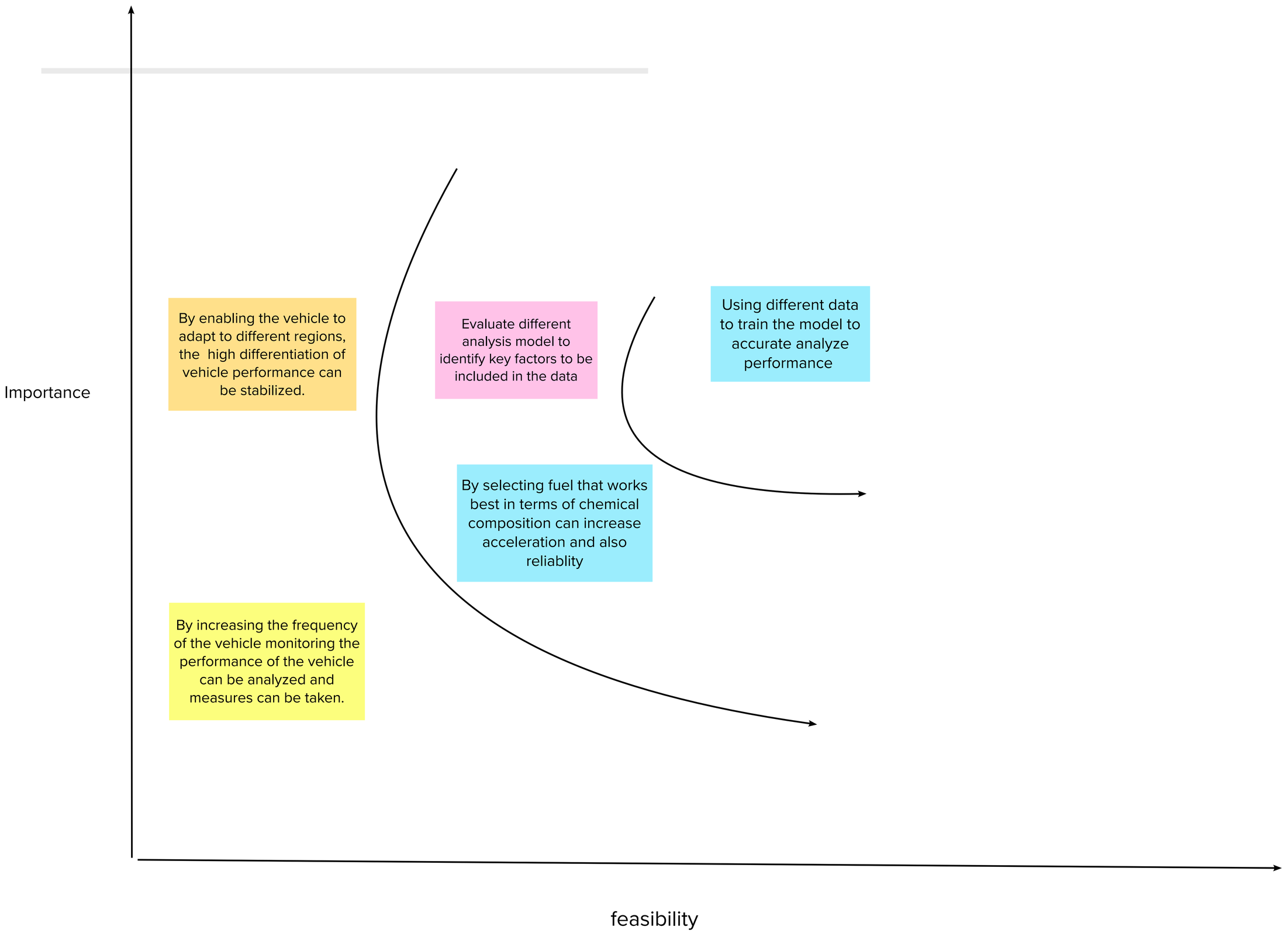
By using constant customer reviews we can identify the key area in which the customer has the problem with and can be resolved.

By adapting dust and heat resisting technologies, the performance of the ev's in high temperature zones can be increased.

By making an analysis model that into account different independent variables and providing accurate analysis

By learning the customer requirements we can tweek the vehicle according to the customer needs

Prioritize


Importance
By enabling the vehicle to adapt to different regions, the high differentiation of vehicle performance can be stabilized.
Evaluate different analysis model to identify key factors to be included in the data
Using different data to train the model to accurate analyze performance
By selecting fuel that works best in terms of chemical composition can increase acceleration and also reliablity
By increasing the frequency of the vehicle monitoring the performance of the vehicle can be analyzed and measures can be taken.
feasibility