Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID10838
Project Name	Project - **Proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.**
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	**Machine Learning based Vehicle Performance Analyser** Predicting the performance level of cars is an important and interesting problem. The main goal is to predict the performance of the car to improve certain behaviours of the vehicle. This can significantly help to improve the system's fuel consumption and increase efficiency. The performance analysis of the car is based on the engine type, no of engine cylinders, fuel type, horsepower, etc. These are the factors on which the health of the car can be predicted. It is an on-going process of obtaining, researching, analysing, and recording health based on the above three factors. The performance objectives like mileage, dependability, flexibility and cost can be grouped together to play a vital role in the prediction engine and engine management system. This approach is a very important step towards understanding the vehicle's performance.
2.	Idea / Solution description	They are various ideas to improve the Vehicle Performance. Analysing these different aspects and qualities giving a general and at the same time a refined solution to improve the performance of the vehicle. To improve the mileage strength and efficiency and comfort, we have modified some parts and upgraded some qualities to provide better performance.

3.	Novelty / Uniqueness	Generally many vehicle analyser, focus on single quality or particular part of the vehicle. Whereas we have focused on all the domains of the vehicle and upgraded their quality and infrastructure to provide better performance for customer satisfaction.
4.	Social Impact / Customer Satisfaction	The petrol/diesel cost can become lower due to a better mileage performance and the existing vehicle parts can be reused which increases the reusability thus decreases the cost on new products and the physically abled people have better seat comfort because of accessories work. Better mileage and better engine maintenance provides complete combustion thus emitting less harmful gases.
5.	Business Model (Revenue Model)	Due to reusable of parts, we will spend only limited amount for modification/alteration. Therefore many customers could prefer the product as we are selling at low cost with a profit. Using this idea, we can make a stable business and get a profitable revenue.
6.	Scalability of the Solution	Our project has better scalability since our model analyses all information provides better refined solution. With less change to the vehicle we could achieve maximum performance.