

Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID10856
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 teams shall fill the following information in proposed solution template.

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p style="text-align: center;">Machine Learning based Vehicle Performance analyzer</p> <p>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 behaviors of the vehicle. The Performance of the vehicle denotes the mileage. This can significantly help to improve the system's fuel consumption and increase efficiency.</p> <p>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, analyzing, 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.</p>
2.	Idea/Solution description	They are various ideas to improve the Vehicle Performance. Analyzing 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	Unlike other Vehicle Performance Analyzers out there, Our analyzer focuses on perfecting the vehicle's performance, bring out it's full potential and improve on the possible areas.

4.	Social Impact/ Customer Satisfaction	Analyzing a vehicle's performance can benefit in many ways. One of the biggest benefit is that , the consumption of the fuel(petrol/diesel, etc) can be reduced in a drastic manner, which in-turn reduces the cost for the fuel and also reduces the emissions from the engine(exhaust gases).
5.	Business Model(Revenue Model)	This application aims to improve the performance of the vehicle and mainly, reduce the emissions. The main business model aims to get moderate profit and provide maximum performance.
6.	Scalability of the Solution	The main perks of this project is that, it can be hosted on bigger cloud platforms such as IBM Watson, etc. and can be accessed from across the globe.