

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID10940
Project Name	Machine Learning based Vehicle Performance Analyzer
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)	Predicting the performance level of cars is an important and interesting problem. The main goal is to predict the car's performance to improve certain vehicle behaviours. 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 ongoing 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 toward understanding the vehicle's performance.
2.	Idea / Solution description	There are several suggestions for improving vehicle performance. Analyzing these many elements and attributes offers a broad and refined answer for improving the vehicle's performance. We updated several parts and increased some attributes to give higher performance and mileage strength, efficiency, and comfort.
3.	Novelty / Uniqueness	Unlike other Vehicle Performance Analyzers on the market, our analyzer concentrates on refining the vehicle's performance, bringing out its full potential, and improving on any areas that may be improved.
4.	Social Impact / Customer Satisfaction	Analyzing a vehicle's performance may be beneficial in a variety of ways. One of the most significant advantages is that fuel consumption (petrol/diesel, etc.) may be drastically

		decreased, lowering fuel costs as well as pollutants from the engine (exhaust gases).
5.	Business Model (Revenue Model)	This proposal intends to increase vehicle performance and, more importantly, minimize emissions. The primary business model seeks a low profit while providing maximum performance.
6.	Scalability of the Solution	The key advantages of this project are that it can be housed on larger cloud platforms like as IBM Watson, etc., and that it can be accessible from anywhere in the world.