

Project Design Phase-I

Proposed Solution

Date	23 September 2022
Team id	PNT2022TMID19412
Project Name	Project – Machine Learning Based Vehicle Performance Analyzer
Maximum Marks	2 Marks

Proposed Solution:

S.No	Parameter	Description
1	Problem Statement (Problem to be solved)	<ul style="list-style-type: none">*Predicting the performance level*To efficiently improve the systems fuel consumption*For efficient engine management system to improve the mileage, dependability, flexibility.
2	Idea / Solution description	<ul style="list-style-type: none">* According to our survey, Decision Tree Algorithm will give a more efficient solution to predict higher mpg.*For which it should have higher R - squared value*Also has smallest MSE value.
3	Novelty / Uniqueness	<ul style="list-style-type: none">*By using the decision tree, we can improve range, durability and longevity of automotive batteries.

		* It predicts performance Mileage with higher accuracy and efficiency.
4	Social Impact / Customer Satisfaction	<p>* When the vehicle is in good condition with higher performance, it avoids the issues like emitting large amount of smoke that prevents air from getting polluted.</p> <p>* Customer satisfaction – customer feels comfortable and smoothness while driving.</p>
5	Business Model (Revenue Model)	<p>* Revenue generation through selling your product as an application.</p> <p>* Revenue generation through collaboration with car companies.</p>
6	Scalability of the Solution	* Low-cost framework can be made for existing vehicles.