Project Design Phase-I Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID
Project Name	Project - 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)	To analyse a vehicle's performance with respect to the various data collected from the vehicle and using Machine learning algorithm to find the difference between the ideal/new vehicle of the same kind. The application allows the user (either the everyday customer or workshop owners) to analyse a vehicle using the onboard data such as total drive mile and etc., to analyse the performance of the vehicle in order to enhance or repair purposes without having to spend hours on testing or taking the vehicle apart. The algorithm will allow to the user to know which aspect of the vehicle needs a check-up and should be taken care of most.
2.	Idea / Solution description	Updating a details dataset of cars/vehicle of any desire with ideal specification sheet in format of .excel or .csv file. Train the algorithm to receive the data from the user onboard data and compare to analyse performance for the said vehicle.
3.	Novelty / Uniqueness	This system allows a wide range of vehicles to be set up for analysis. The ML allows for faster and swappable data set to be trained for various different vehicles and expected performance in various different regions. This allows varied performance analysis depending on the vehicle's region of use. For example, the battery life of a car is dependent on the temperature of the surroundings; suspension depends on the type of terrain the vehicle most frequently visits or raids on.

4.	Social Impact / Customer	This method is highly feasible and does not
	Satisfaction	require any heavy new equipment to be
		carried over. Being extremely cost effective
		allows it to be consumer pleasing and can
		be modified with various datasets allowing
		It to be used in various regions around the
		world. With recent e-vehicle trend and even
		gas cars come to the market with digital
		control and computer data allows getting
		onboard data a lot easier without any extra
		gadget to be placed in the vehicle. The
		model can also be specifically trained for
		other features and heavy vehicles if needed.
		For eg: Military vehicles.
5.	Business Model (Revenue Model)	Can be a monthly subscription feature for
	Business Widder (Revenue Widder)	using the cloud controlled ML software / or
		T Daid addication with dedicated til and
		paid application with dedicated UI and cloud (similar to adobe applications.)
6.	Scalability of the Solution	cloud (similar to adobe applications).
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