**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 06 November 2022 |
| Team ID | PNT2022TMID10076 |
| Project Name | Project - Trip Based Modelling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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

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| --- | --- | --- |
| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Ability to model and predict the fuel consumption is vital in enhancing fuel economy of vehicles and  preventing fraudulent activities in fleet management. Fuel consumption of a vehicle depends on several  internal &amp; external factors However, not all these factors may be measured or available for the fuel  consumption analysis. The main aim of the project is to build Machine Learning  algorithm to predict the  fuel consumption of  fleet vehicles based on the gas type . A web application is built which is integrated  with ML model. |
|  | Idea / Solution description | If you’re driving an automatic car, make use of cruise control to keep your speed constant. And if you’re  driving a manual car, maintain a higher gear when appropriate. In each of these instances, your engines  go through less revolutions per minute (RPM) and will reduce your fuel consumption. |
|  | Novelty / Uniqueness | By using this project, the user can frequently monitoring the level of fuel consumption and he/she can take the necessary decision regarding the problematic situation. |
|  | Social Impact / Customer Satisfaction | It does not require any expensive hardware for monitoring the fuel consumption level which makes the project efficiently to the customer. |
|  | Business Model (Revenue Model) | By using this model the driver can avoid the unnecessary futuristic problems. |
|  | Scalability of the Solution | By applying the machine learning algorithm, this solution provides a scalable solution to many number of customers at a time. |