Team ID	PNT2022TMID12710
Project Name	Project – Trip Based Modelling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning

Project Objectives

Project Objective:

To predict the fuel consumption of fuel in fleet vehicles, which can help in improving the fuel economy and also can be useful in preventing fraudulent activities, by using Supervised Regression Machine Learning algorithms like linear, or Support Vector Regression to predict the consumption of fuel in fleet vehicles based on various parameters like fuel type, weather, etc, the result of which will be displayed to the user via a web application with the ML models integrated with it. The results provided by the application will help the customer to plan ahead for future trips and find the best fuel type and vehicle in the fleet, thus it can improve the fuel economy of the fleet and allows the user to find the most appropriate fuel type for any particular vehicle type. This can allow the entire fleet to save fuel and thus reduce greenhouse emissions by using the optimal amount of carbon-based fuels, which is currently a diminishing resource. The customer will be able to find the most efficient combination of vehicles and fuel types in the fleet, and thus will be able to save expenses. By predicting the expenses for future trips, the customer is then able to plan ahead and also can prevent fraudulent activities.