

Ideation Phase

Define the Problem Statements

Date	19 September 2022
Team ID	PNT2022TMID46701
Project Name	Trip Based Modeling of Fuel Consumption in Modern Fleet Vehicles Using Machine Learning
Maximum Marks	2 Marks

Customer Problem Statement Template:

Air conditioning uses fuel

Using a vehicle's air-conditioning system increases its fuel consumption more than any other auxiliary feature.

An air-conditioning (a/c) system can increase fuel consumption by up to 20% because of the extra load on the engine. The actual load depends on the vehicle's interior size, the outdoor temperature and other conditions

Winter Seasoning:

In winter, vehicles use heat from the engine to warm the cabin air. However, if you use the defrost setting, the a/c system may also be engaged automatically to keep the windows from fogging.

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Driver	speed up the car.	but it tends to be stubborn due to fuel jams.	Due to weather condition it is tough to accelerate	which makes it tough to drive.
PS-2	Normal driving person	Fuel prediction	Tough to analyze the fuel by distance.	due to that without knowing fuel banks on route	Tough to make a decision.