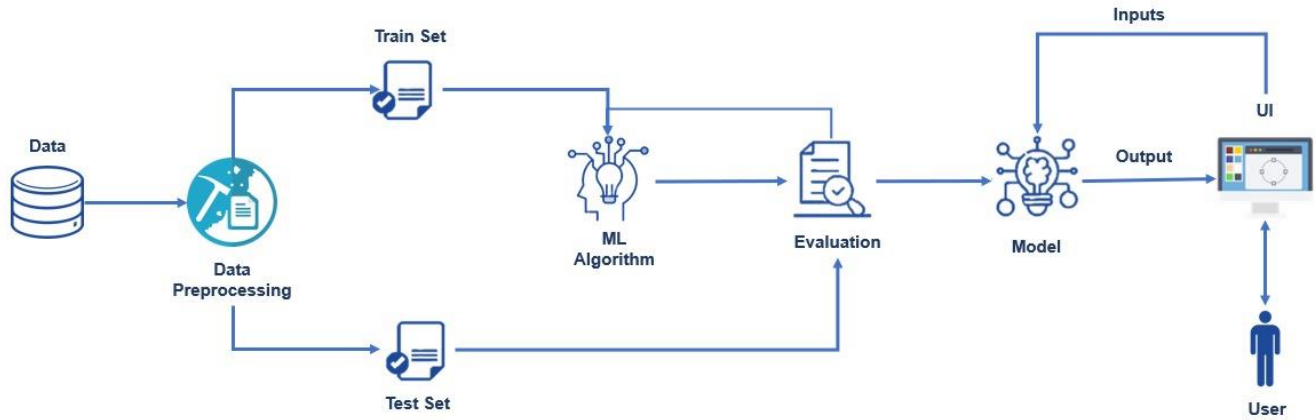
Project Initialization and Planning Phase

Date	8 July 2024
Team ID	SWTID1720195303
Project Name	Predictive Modeling For Fleet Fuel Management Using Machine Learning
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

Efficient fuel management is crucial for fleet operations, as it significantly impacts operational costs, environmental footprint, and overall profitability. Traditional methods of managing fuel consumption are often reactive and fail to leverage the vast amounts of data generated by modern fleet operations. This results in suboptimal fuel usage, higher operational costs, and increased environmental impact.

The primary challenge lies in accurately predicting fuel consumption and identifying factors influencing fuel efficiency across a diverse fleet of vehicles. These factors may include vehicle type, driving behavior, maintenance schedules, route characteristics, and external conditions such as weather and traffic. The absence of a robust predictive model hinders fleet managers from making data-driven decisions to optimize fuel consumption and reduce costs.



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A family man thinking of travelling.	Reduce the fuel consumption which is used for travelling.	I am using a heavy vehicle which requires	I am travelling with a joint family which includes a	I am going to pollute the environment a lot.

			more fuel.	lot of people.	