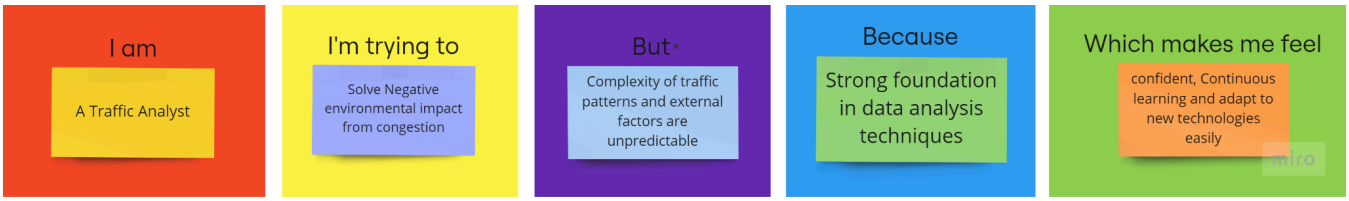
Project Initialization and Planning Phase

Date	9th September 2024
Team ID	LTVIP2024TMID24968
Project Name	TrafficTelligence - Advanced Traffic Volume Estimation with Machine Learning
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

Traffic congestion is a significant challenge in urban areas, leading to increased travel times and environmental impact. Traditional traffic management systems often lack real-time adaptability and predictive capabilities. To address this, TrafficTelligence employs machine learning algorithms to analyze historical traffic data and various influencing factors, providing accurate real-time traffic volume estimations. This advanced system aims to reduce congestion through adaptive traffic control, support urban planning with data-driven insights, and enhance commuter navigation experiences. Using libraries like Pandas, NumPy, and Matplotlib, TrafficTelligence enables users to monitor daily congestion patterns, ultimately improving traffic management and overall mobility.



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A Traffic Analyst	Solve the negative environmental impact of congestion	The complexity of traffic patterns and external factors are unpredictable	I have a Strong foundation in data analysis techniques	Confident, Continuously learning, and adapting to new technologies easily