

Ideation Phase
Define the Problem Statements

Date	18 January 2025
Team ID	LTVIP2025TMID48957
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	2 Marks

Customer Problem Statement Template

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A 30-year-old working professional , tech-savvy but not an auto expert, living in an urban city with limited EV exposure.	Compare EV models based on range and charging station availability near my workplace and home.	I find the dashboards cluttered and hard to navigate; I can't filter by my city or see nearby stations easily.	The tool lacks location-based filtering and isn't personalized to user needs or preferences.	Frustrated, confused, and discouraged from switching to an EV.
PS-2	A 25-year-old male, EV enthusiast, early adopter, detail-driven, and interested in performance metrics and technical comparisons.	Analyze battery efficiency across brands and compare top speeds, range-to-cost ratio, and charging speeds.	The visualizations are basic, lack calculated metrics like km/kWh or price/km, and don't support export for analysis.	The tool is designed more for general audiences and lacks advanced analytical features.	Restricted and disappointed, as I can't explore the data at the depth I want.