

Ideation Phase

Define the Problem Statements

Date	25 June 2025
Team ID	LTVIP2025TMID20808
Project Name	Visualization tool for electric charge and range analysis
Maximum Marks	2 Marks

2.1 Problem Statement

With the growing popularity of EVs, users and stakeholders require an easy way to compare different models and understand their performance and feasibility. The problem is to consolidate and visualize EV data from various sources to help with decision-making.

about charging station availability, and **lack of real-time insights** into infrastructure usage.

Urban planners and infrastructure providers also struggle to decide **where to place new stations** and how to monitor **peak charging demand** effectively.

Currently, **no visual tool** exists that clearly shows these patterns in an interactive and user-friendly way.

Hence, there is a strong need for a **data-driven visualization platform** that simplifies EV charge and range data to support users, planners, and government authorities.