Project Design Phase
Proposed Solution

Date	15 February 2025
Team ID	LTVIP2026TMIDS90945
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	2 Marks

Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	EV data such as range, battery capacity, pricing, and charging infrastructure is scattered across multiple sources. This makes comparison and performance evaluation difficult for consumers and policymakers.
2.	Idea / Solution description	Develop an interactive Tableau dashboard that integrates EV models and charging station data. The dashboard enables visual comparison of range, battery performance, price, and regional infrastructure using filters and charts.
3.	Novelty / Uniqueness	The solution combines EV performance metrics with charging infrastructure data in one interactive platform, allowing comparative and trend-based analysis rather than static information display.
4.	Social Impact / Customer Satisfaction	The dashboard helps users make informed EV purchase decisions and supports policymakers in planning charging infrastructure, promoting sustainable transportation.
5.	Business Model (Revenue Model)	Currently an academic project. In future, it can generate revenue through subscriptions, custom analytics reports, and consultancy services for EV stakeholders.
6.	Scalability of the Solution	The dashboard is scalable and can integrate new EV models, real-time charging data, and additional regions without major redesign.