

Project Design Phase Proposed Solution Template

Date	15 February 2025
Team ID	LTVIP2025TMID47299
Project Name	Visualization Tool For Electric Vehicle Charge And Range Analysis
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Lack of user-friendly and insightful visualization tools to analyze electric vehicle (EV) charging data and range performance for consumers and analysts.
2.	Idea / Solution description	Develop an interactive data visualization tool using platforms like Tableau or Power BI to analyze EV charging patterns, efficiency, range statistics, and other performance metrics based on user or fleet data.
3.	Novelty / Uniqueness	Combines dynamic dashboards with real-world EV data. Offers charge time prediction, route optimization, and comparative analysis across multiple EV models.
4.	Social Impact / Customer Satisfaction	Promotes sustainable transportation by helping users optimize EV use. Enhances transparency and trust in EV performance among consumers and fleet managers.
5.	Business Model (Revenue Model)	Freemium model: Basic dashboards for free; premium features such as predictive analytics, API access, and customized insights available via subscription.
6.	Scalability of the Solution	Scalable across regions and EV brands. Can be integrated with charging infrastructure, automotive apps, and fleet management systems globally.

