Project Design Phase
Proposed Solution Template

Date	15 February 2025
Team ID	LTVIP2025TMID52074
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.

EV Analytics Project Overview Table

S.No.	Parameter	Details
1	**Problem Statement**	Lack of real-time, integrated visibility into EV specifications, pricing, and public charging infrastructure—hindering informed decision-making for stakeholders, buyers, and developers.
2	**Solution Description**	A data-driven Tableau dashboard embedded in a Flask web app that enables comparative insights across EV models (price, range, efficiency) and charging networks (type, power, location), based on cleaned multi-source datasets.
3	**Innovation & Uniqueness**	Combines global and Indian datasets, charger metadata, geospatial mapping, interactive storytelling, and user personas. Enables multi-dimensional filtering and EV scenario modeling via a single web interface.
4	**Social Impact / End-User Value**	Empowers citizens, policy makers, and researchers to make data-backed EV decisions; supports sustainability goals by identifying underserved regions and optimal models; improves public awareness through intuitive visuals.
5	**Business / Revenue Model**	Freemium model for public access with extended tiers offered to urban planners, auto R&D teams, or educational institutions—features like predictive modules, reports, or persona-specific dashboards may be licensed.
6	**Scalability & Expansion Potential**	Architecture supports expansion to new cities, international comparisons, live data API integration, and even other sustainability domains (e.g., public transport, air quality, charging utilization analytics).