Project Design Phase
Solution Architecture

Date	20 February 2026
Team ID	LTVIP2026TMIDS74497
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	4 Marks

Solution Architecture: EV Analytics Dashboard

The EV Analytics Dashboard bridges the gap between fragmented EV data and actionable insights for buyers, policymakers, and manufacturers. It follows a structured architecture that ensures scalability, clarity, and effective decision-making support.

Goals:

• Identify the best tech stack to visualize EV specifications and infrastructure data.
• Present a clear structure and behavior of the solution to stakeholders (EV buyers, analysts, policymakers).
• Define key features such as model comparison, charging station mapping, range–price filtering, and segment-level insights.
• Establish specifications and calculated fields to standardize data cleaning, integration, and visual delivery.

Example - Solution Architecture Diagram:

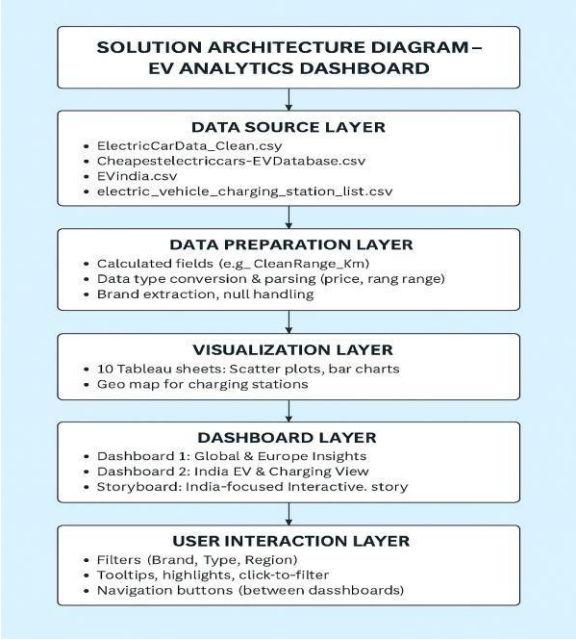

Figure 1: Solution Architecture Diagram – EV Analytics Dashboard