Proposed Solution and Solution Architecture

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

Proposed Solution

The proposed solution includes:

1. **Data Collection:**
   - Collecting EV charging and range datasets from reliable sources
   - Cleaning and formatting data using MySQL Workbench
2. **Data Visualization:**
   - Connecting Tableau to MySQL
   - Creating dashboards showing charging station usage, peak times, vehicle performance
3. **Storytelling:**
   - Using Tableau Stories to walk users through data insights step by step
4. **Deployment:**
   - Publishing the dashboard and story on Tableau Public
   - Optionally embedding on a custom-built Netlify website

Solution Architecture

Raw Dataset (CSV/Excel)

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MySQL Workbench (Structured storage & SQL filtering)

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Tableau Desktop (Interactive Dashboards + Story)

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Tableau Public (Online Publishing)

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Website with embedded Tableau links