Technology Stack

Visualization Tool for Electric Charge and Range Analysis

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

Technology Stack:

The project uses Tableau Public for visualization, Google Sheets/CSV for data storage, and HTML/CSS for web integration. Supporting tools include Microsoft Word for documentation and GitHub for code/version management.

S.No	Component	Description	Technology Used
1	User Interface	Visual interface for EV charge/range dashboards and story	Tableau Public
2	Data Preparation Logic	Scripts and logic to clean and format EV dataset	SQL queries, MySQL Workbench
3	Data Analysis Logic	Generate charge duration, range, usage pattern charts	Tableau Calculated Fields, Filters
4	Data Source	Raw dataset used for charging and vehicle range analysis	CSV Files
5	Database (optional)	Storage for backup data	MySQL Workbench
6	Cloud Storage (optional)	Storing final reports, screenshots, and dashboard exports	Google Drive, Tableau Public
7	File Storage	Local system for raw data, Tableau files, screenshots	Local File System
8	External APIs (optional)	Real-time EV station/traffic data (future scope)	Google Maps API, Open Charge Map API
9	Infrastructure	Platform used for building and publishing dashboards	Local System + Tableau Public