TECHNOLOGY STACK

Date	21 February 2026
Team ID	LTVIP2026TMIDS80482
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	4 Marks

Layer	Technology	Description
Frontend / Visualization	Tableau Desktop	Used to create dashboards, charts, and stories for data visualization
Backend / Processing	Tableau Engine	Converts user actions into queries and generates visualizations
Data Source	Excel / CSV Files	Stores electric vehicle dataset (price, range, battery, etc.)
Data Handling	Tableau Prep / Tableau Desktop	Used for data cleaning, preprocessing, and transformation
Query Language	SQL (in Tableau)	Used for data querying and calculations
Platform	Tableau Public / Tableau Server	Used to publish and share dashboards online (help.tableau.com)
Visualization Types	Charts (Bar, Line, Pie, Area)	Used to represent insights visually
Operating Environment	Windows OS	Used to run Tableau Desktop

Technologies Used for Embedding Dashboard & Story

Layer	Technology	Description
Web Structure	HTML	Used to create the webpage and place the embedded content using <iframe>
Styling	CSS	Used to adjust size, spacing, and layout of the embedded dashboard/story
UI Framework	Bootstrap	Used to make the webpage responsive and properly align the embedded content

Visualization Hosting	Tableau Public	Hosts the dashboard and story and provides embed links
Embedding Method	iFrame	Used to embed the Tableau dashboard and story into the webpage

Technical Architecture: