**AI Declaration**

**Project Title:**  
TV Energy Consumption - Interactive Histogram and Scatterplot

**Use of AI Assistance:**

I used **ChatGPT** to assist me with the following specific tasks during the development of this project:

* **Debugging help**:
  + Correcting JavaScript function naming mismatches (e.g., drawScatterPlot capitalization).
  + Identifying and fixing D3 axis, domain, and range setup errors.
* **Code structure advice**:
  + Setting up colorScale with appropriate .domain() and .range() values to ensure consistent coloring based on TV screen technologies (LED, LCD, OLED).
* **Tooltip improvements**:
  + Guiding the construction of dynamic tooltips in D3.js, including setting up transitions, growing circles on hover, and positioning the tooltip near the hovered data point.
* **Best practice recommendations**:
  + Organizing D3 charts using clear inner groups (<g>) for histogram and scatterplot.
  + Using .nice() on scales to make axis labels cleaner and more readable.

**How AI was used:**

AI was used **only as a guide or tutor** to:

* Debug issues.
* Suggest clean ways to set up D3 visualizations.
* Help ensure professional styling (animations, colors, transitions).

**All code was manually implemented, adapted, tested, and understood by me.**  
I did not copy-paste full solutions blindly. I reviewed and customized all code to meet project requirements.

**Date:**  
28 April 2025

**Student Name:**  
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