

Evaluation Criteria

Evaluation Criteria	Description	A-E
1. Data Representation & Clarity		
1.1 Appropriate Visualization Choice	Does the project use suitable visualizations (e.g., bar charts, line charts, scatter plots) for the dataset?	
1.2 Avoidance of Chart Junk	Are the visualizations free from unnecessary elements (e.g., excessive colors, 3D effects, distracting elements)?	
1.3 Readability	Are the charts easy to read (e.g., axis labels, legend, annotations)?	
1.4 Effective Use of Colors	Is color used effectively to represent the data (e.g., avoiding misleading color schemes, maintaining contrast)?	
1.5 Data-Ink Ratio	Is the data clearly presented without overloading the viewer with non-essential graphical elements?	
2. Interaction & User Engagement		
2.1 Linked Views (Interactivity)	Does interaction with one graph (e.g., clicking, hovering) update or filter the data shown in other visualizations?	
2.2 Tooltip/Details on Demand	Do tooltips or other interactive elements provide additional details without overcrowding the main visual?	
2.3 Responsiveness & Speed	Is the interface responsive and performant (e.g., no lag during interactions or updates)?	
3. Adherence to Visualization Best Practices		
3.1 Proper Use of Axis & Scales	Are axes properly labeled, with clear units, and is the scale appropriate (e.g., avoid misleading truncation)?	
3.2 Data Density vs. Simplicity	Is the visualization well-balanced (e.g., not too cluttered, not oversimplified, shows appropriate data detail)?	
3.3 Consistency Across Visuals	Are fonts, colors, and styles consistent across different visualizations?	
4. Usability & User Experience		
4.1 Ease of Navigation	Is the interface intuitive to navigate? Are key functionalities (e.g., filters, updates) easy to access and use?	
4.2 User Guidance/Help Features	Is there adequate guidance (e.g., labels, instructions, tooltips) for users to understand how to use the interface?	
4.3 Responsiveness to User Input	Is the system responsive to user input, and does it provide feedback (e.g., loading indicators, confirmation of actions)?	
4.4 Interface Layout & Structure	Is the interface well-structured several pages, avoiding excessive scrolling (e.g., several pages, navigation menu)? Does the user see updates based on selections without needing to scroll?	
4.5 Accessibility	Is the design accessible (e.g., color-blind friendly, font size, ...)?	

Evaluation Criteria	Description	A-E
5. Innovation & Creativity		
5.1 Creative Use of Visualization Techniques	Has the project demonstrated creativity in data representation (e.g., novel techniques, advanced charts)?	
6. Report Evaluation		
6.1 Design Choices Justification	Are the design choices clearly explained and justified in the report?	
6.2 Citations & References	Does the report properly cite all tools, libraries, sources, and papers used in the project?	
6.3 Algorithm Explanation	Does the report reasonably detail the algorithms employed (without going into code specifics), and justify the selection of these algorithms?	
6.4 Software Examples	Does the report provide concrete examples illustrating the software's capabilities (e.g., scaling, interaction, visualization features)?	