

Evaluating an AI-Powered Dashboard for Misleading Graph Detection and Improvement

Thank you for participating in this study. **Please read the instructions carefully. Scroll down if necessary.**

Note: Please never 'reload' button in your browser. You will lose all your progress and will have to restart. You can leave the study anytime by clicking on the "Leave study" button on the top right.

A brief idea of the study:

This study aims to investigate data visualization experts' reactions and perceptions toward an AI-powered dashboard designed to detect and improve misleading graphs. The user study seeks to understand the dashboard's effectiveness, usability, and practical applications through expert evaluation. Through hands-on tasks with various misleading visualizations, this research explores how experts interact with AI-suggested improvements, their decision-making processes when implementing changes, and their assessment of the tool's potential impact on professional visualization workflows. The study focuses on the dashboard's ability to identify common visualization issues, the relevance of its suggested improvements, and its potential integration into expert-level data visualization practices.

[CONSENT FORM](#)

I have read and agree to the CONSENT FORM

☐ YES



What is your age?

- ☐ Under 18
- ☐ 18 - 24
- ☐ 25 - 34
- ☐ 35 - 44
- ☐ 45 - 54
- ☐ 55 - 64
- ☐ 65 - 74
- ☐ 75 - 84
- ☐ 85 or older
- ☐ Prefer not to say

What is your level of education?

- ☐ Less than high school degree
- ☐ High school graduate (high school diploma or equivalent including GED)
- ☐ Some college but no degree
- ☐ Associate degree in college (2-year)
- ☐ Bachelor's degree in college (4-year)
- ☐ Master's degree
- ☐ Doctoral degree
- ☐ Professional degree (JD, MD)
- ☐ Prefer not to say

What is your gender?

- ☐ Man
- ☐ Woman
- ☐ Non-Binary / third gender
- ☐ Prefer not to say

What best describes your employment status over the last three months?

- ☐ Working full-time
- ☐ Working part-time
- ☐ Unemployed and looking for work
- ☐ A homemaker or stay-at-home parent
- ☐ Student
- ☐ Retired
- ☐ Other
- ☐ Prefer not to say

In which country do you currently reside?

How many years of experience do you have in data visualization?

What types of data visualizations do you work with most frequently?

How often do you encounter misleading graphs in your/others work?

What tools or methods do you currently use to identify or correct misleading graphs?

On a scale of 1-10, how would you rate your expertise in identifying misleading data visualizations?

0 1 2 3 4 5 6 7 8 9 10