

Data Visualization Hackathon

Be a Health Detective: Tell Your Data Story!

You've spent the week learning how to collect, clean, analyze, and visualize data—now it's time to bring it all together! In this half-day Data Visualization Hackathon, you'll work in your groups to create a health dashboard that tells a compelling story about your well-being. This is your chance to apply everything you've learned in the mini-course, from data organization to storytelling with visuals, and show off your skills as a "Health Detective." Let's make your data come alive!

What's the Goal?

- Create a health dashboard that tells a meaningful story using your collected data.
- Combine your skills in data cleaning, organization, and visualization to uncover insights.
- Work as a team to design either a group dashboard (combining everyone's data) or individual dashboards for each person in the group.
- Present your process, decisions, and insights in a 10-minute presentation during the second half of the session.

Team Setup

You'll work in your pre-assigned groups of 4 (with one group of 5). Collaborate closely, share responsibilities, and decide together whether to create a single dashboard combining everyone's health data or create 4 to 5 dashboards, one for each person's data. Make sure every team member's data is used and everyone contributes to the process, from data preparation to storytelling!

Hackathon Steps

During your presentation, you'll need to show the entire process of how you achieved your final visualizations. Here's a breakdown of the steps:

1. **Data Collection:** Each of you has individually collected health data (e.g., steps, sleep, mood, heart rate) throughout the week as part of the assignment. For more details, refer to the Assignment page.
2. **Data Cleaning and Organization:** As a group, clean and organize your combined data. You can do this manually in your notebooks or use digital tools like Excel or Google Sheets. Take

snapshots or keep notes of your data before and after cleaning/organization to explain your process during the presentation.

3. Data Analysis Using AI (Optional): This step is optional. If your group chooses, you can use AI techniques (e.g., machine learning or NLP) to analyze your data for deeper insights. Tools like Scratch or Google Colab can be used. If you do this, take snapshots or notes to share during your presentation.

4. Data Visualization: Decide as a group whether to create a single dashboard combining everyone's health data or 4 to 5 dashboards, one for each person's data. You can choose either digital or physical visualization.

Be creative and make your insights clear and engaging!

Your Presentation

In the second half of the session, each group will have 10 minutes to present their health dashboard. As a group, you must present the entire process, including snapshots or notes of the steps you took (data cleaning, organization, optional AI analysis, and visualization), and your final dashboard. Share your story, insights, and the decisions you made, like why you chose certain metrics, tools, or formats, and what you learned about your health habits. Be ready for peer feedback and discussion afterward!

Hackathon Schedule

- Morning (9:00 AM - 12:00 PM): Work on your dashboard as a team.
- Break (12:00 PM - 1:00 PM): Lunch break.
- Afternoon (1:00 PM - 3:00 PM): Present your dashboard (10 minutes per group), followed by peer feedback and reflections.

This is your moment to show what you've learned and tell a powerful story with your health data. Work together, get creative, and have fun as you wrap up the mini-course with a bang!

Let's Make Your Health Data Shine!