Final Project Description - Winter 2025/2026

1. Objective 🎯

The objective of this final project is to analyze and visualize a real-world dataset of your choice using the skills acquired in this course. You should choose a dataset that genuinely interests you, as this will help you develop meaningful analytical questions and weave them into a compelling story. **Your analysis must include at least 10 analytical questions, each explored through its own visualization (for a minimum of 10 visualizations total). Additionally, you are required to build a Streamlit interactive dashboard that contains a subset of your visualizations.**

2. Deliverables and Due Date 📅

The total grade of the project will be divided equally on the following:

1. A **Jupyter notebook** containing your analysis and visualizations. Please deliver your notebook itself, a **PDf or HTML** version of it, as well as the **dataset** you used.

2. A **Powerpoint presentation** with your visualizations and summary of key insights and conclusions. Please convert to a PDF.

3. **Streamlit dashboard:** include the link to the Github repo of the source code, the link to the published dashboard on Streamlit Community Cloud, as well as snapshots of the dashboard in your Powerpoint presentation.

Please send all deliverables in a zip folder in a 1-1 message to me on Microsoft Teams. No late submissions will be considered!

3. Grading ✅

Grading will follow the following rubric:

- ▼ Appropriate dataset selection (20%)

- ▼ Methods/Ideas/Procedure (40%)

- ▼ Correctness (20%)

- ▼ Overall quality of deliverables (20%)

4. Helpful resources 📚

Possible sources to find a dataset for your project include:

- UCI Machine Learning Repository

- Kaggle Datasets

- Google Dataset Search

- Amazon AWS Public Datasets

- Data.gov

- World Bank Open Data

- FiveThirtyEight Datasets

- [European Data Portal](#)

- [Information is Beautiful](#)