CS2704 - Final Project Proposal: Income Inequality vs. Trust in Government

Name: Nicholas Richard Student ID: 3499395

Group: None (working solo)

Chosen Datasets:

1. Inequality in Income Across the Globe

Source:

https://www.kaggle.com/datasets/iamsouravbanerjee/inequality-in-income-across -the-globe

• Years covered: 2010 - 2021

• Countries included: All 195 countries

2. Trust in Government

• Source: https://www.oecd.org/en/data/indicators/trust-in-government.html

Years covered: 2000 - 2023Countries included: 38 countries

GitHub Repository:

https://github.com/nrichar1/Income-Inequality-vs-Trust

Hypothesis:

A greater income inequality within a country leads to a decreased trust among citizens in that country's government.

My Plan to Test this Hypothesis:

- 1. Data Preparation:
 - Collect and align datasets by country and year
 - Standardize entries, clean missing data, and merge

2. Descriptive Analytics:

- Visualize trends in both trust and inequality over time
- Create scatterplots and correlation heatmaps

3. Predictive Analytics:

- Use linear regression to model trust based on inequality
- Check how accurate the predictions are and if the results are meaningful
- Explore possible lag effects

4. Enhancements:

- Analyze any outliers
- Compare regional patterns
- Check for non-linear relationships