Tools for Data Analysis
Term Project [30 points TOTAL]

The semester project is intended to allow you to practice putting all of the concepts from class to use in a data project of your own choosing. You will be expected to collect data from the European Data Portal (`https://www.europeandataportal.eu`), clean that data in preparation for analysis, then implement your chosen form of analysis in order to address your proposed research goal. You may choose any research question that interests you.

What should I Choose for a Project?

- Pick a question that **you** find interesting.

- It should involve some form of analysis: visualization, regression, clustering, prediction, etc.

- You should be able to describe a policy implication resulting from your research. (Can be business, public, or personal policy)

Steps to Project Completion:

1. Project Proposal (5 pts)

   - What data will you use?
   - What question will you attempt to answer?
   - What kind of analysis will you use to answer your question?

- How will you use the information you collect to answer that question?

2. The Project (25 pts)

   - Conduct research based on your proposal using the tools covered in this class
   - Write a short paper describing your findings (about 3 pages, single spaced, 12pt font, Times New Roman)
   - In your paper, feel free to discuss tools that we didn't cover that might have been useful in your project in addition to your findings

What to Turn In:

1. Project proposal (in Word or PDF format) – turned in during the proposal phase

2. Code for project implementation (may be in multiple files, but each should be of the .py format)

3. Project write-up (in Word or PDF format)

4. Slides (if any) from presentation

5. Video recording of presentation (should be three to five minutes long). We will watch the presentations, and ask questions of the presenters during the final class period.