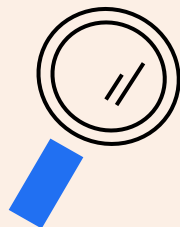


Logan Lomonaco

Project Progress Report



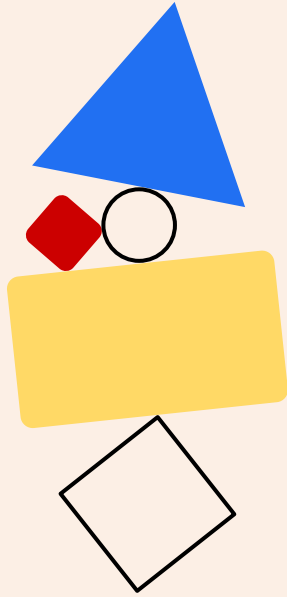
Project Outline



Outline of steps for the research part of the project

- Create a comprehensive list of goods that an everyday person might purchase that would be included in the CPI
 - Include items from the major categories of the CPI
 - Adjust list for search trends
 - Some goods (e.g., school supplies, holiday-related items) may have seasonal search trends
 - Search terms may vary by region (e.g., “soda” vs. “pop”)
 - Brand names (e.g., Nike, Coca-Cola) can also be included for more granular data
- Use the list to get data from Google Trends
 - See if process can be automated with web scraping if possible
- Combine with CPI data from BLS/FRED
 - Might also include other information
 - Help isolate the effect of search trends on CPI
 - Economic indicators
 - Unemployment
 - Disposable Income
 - Producer Price Index (PPI)
 - Consumer Confidence Index
 - External Shocks: dummy variables for events like pandemics or oil price spikes
- Run a regression(s) to determine the relationship between search trends and inflation measured by CPI
 - Explore different regression models for different parts of the overall analysis
 - Try an incorporate code from class if it suits the use case of the analysis
 - Might run separate regressions for CPI sub-indices (e.g., food, energy) to identify category-specific relationships.
 - Might split data into training and testing sets to assess predictive power

Thank You!



Questions?

Is there anything I can clarify, go over, or expand upon?

Thoughts?

What are your impressions of the Project so far?

Suggestions?

Any ideas, constructive criticism, or improvements that you would like to suggest?

