1. We want to do a project with securities and portfolio analysis because it relates Adwoa’s career goals.
2. Project Name: Inflation Investing in 2022
3. Project aim: The aim of our project is to analyze how stocks performed in 2022 – a period of high inflation and interest rates, specifically Ibonds for retail savers.
   * Topics:
     1. Consumer Price Index (CPI) over time to introduce topic
        + By state? Geoviews map? – Graph 1
     2. Ibond rates/returns Graph-2
     3. Best 5 stock portfolio
        + analysis (returns, sector, industry, market cap) – graph 3
        + Compare to Ibond (sharpe ratio) -graph 4
        + CPI?
     4. Best 20 stock portfolio
        + analysis (returns, sector, industry, market cap) – graph 5
        + Compare to Ibond (sharpe ratio) -graph 6
        + CPI?
     5. Comparison with indices -graph 7
        + S&P500
        + Nasdaq Index
        + Dow Jones Industrial Average
        + MSCI World Index
        + FTSE All-World Index
     6. Recommendations – graph 8
        + Pick stocks in our portfolio to see their returns (application) as a way to see what happens when Ibonds go up dramatically (inflation)
4. Sources of data:
   * Historic data: <https://pypi.org/project/yfinance/>
   * Ibond data (csv or json): <https://fiscaldata.treasury.gov/datasets/savings-bond-value-files/savings-bonds-value-files>
   * Consumer price index: <https://www.bls.gov/cpi/data.htm>
5. Other links: <https://treasurydirect.gov/savings-bonds/i-bonds/>

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| Subtopic | Data + Source | Visualization | Text Analysis |
| Consumer Price Index | World: <https://www.imf.org/external/datamapper/api/help> (API) | Geoviews Map by State and/or Country  This is a good example: <https://www.imf.org/external/datamapper/PCPIPCH@WEO/WEOWORLD/VEN> |  |
| Ibond rates (“Sharpe ratio” for retail investors) | <https://fiscaldata.treasury.gov/datasets/savings-bond-value-files/savings-bonds-value-files> (csv or json) |  |  |
| Best 5 Stock Portfolio |  |  |  |
| Best 20 Stock Portfolio |  |  |  |
| Comparison to Indices |  |  |  |
| Recommendations |  |  |  |
| Create your own inflation portfolio |  |  |  |

Other resources

Plotnine library: <https://plotnine.readthedocs.io/en/v0.12.4/gallery.html>