Group 3 Project Ideas

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* **Project Title: Help With Retirement!**
  + Anon wants to invest in retirement but is unsure of what they want to invest in for the pharmaceuticals portion of their portfolio.
* **Project Description:**
  + We will look at stock information from multiple pharmaceutical companies and compare them to determine which one Anon should invest in over the long term.
* **Questions to Answer:**
  + How many companies should be compared?
    - Small data set (2-3) or larger?
  + How have the company’s stock trends performed in the past few years?
    - Short term vs. long term analysis.
  + How can we predict future trends?
    - Linear regression and stats prediction.
* **Datasets to Be Used:**
  + Stock data from the S&P 500 symbol
    - Top grossing companies
  + Individual stock csv files from marketwatch.com
* **Rough Breakdown of Tasks**
  + Gathering data (csv files, etc.)
  + Merging data (merging dataframes)
    - Finding what information is relevant to keep.
  + Visualizing data (graphing and plotting data)
    - Calculating regression for predictions.
    - Presenting different graphs.
  + Analyzing the data
    - What did we find?
  + Conclusions
    - Which company should Anon invest in and why.
* **Possible Data We Can Use:**
  + Company Stock Data:
    - Companies:
      * AbbVie, Bristol Myers Squibb, Catalent, Eli Lilly and Company, Johnson & Johnson, Merck & Co., Organon & Co., Pfizer, Viatris, Zoetis
    - Nasdaq.com has csv files for companies dating back up to 5 years
      * Example AbbVie: <https://www.nasdaq.com/market-activity/stocks/abbv/historical>