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Project1 Proposal: Stock Market Sector Analysis (2005-2010)

General Idea: We want to analyse the different Stock Market Sectors during interesting time frames. We initially wanted to do the Covid time frame from 2018 to 2022, but the data from the API was limited to 2013. This will mainly be exploratory data analysis EDA, but we do want to pull some inferences from the data.

Scope and Purpose:

* Analyse and compare different Stock Market Sectors **(Energy, Tech, Health, Consumer Staples)**. 6 Stocks each.
* Record trends within individual Sectors. Compare them against each other.
* Highlight an aggregate comparison between the Sectors, with the ability to explain the differences from Sector to Sector, over time.

The Stocks we’ll be looking at:

* Energy - CVX, MRO, XOM, FCEL, PLUG, VLO
* Tech - AMD, AMZN, AAPL, INMTC, NVDA, MSFT
* Health - CVS, VRTX, BIIB, MOH, MRK, HUM
* Cons. Staples - TGT, WMT, PG, KO, COST, HD

We’ll be pulling this data from the “<https://data.nasdaq.com/api/v3/datasets/wiki/>” API.

Questions we’ll be asking:

1. Which stock and sector held its value over the years?
2. Which field would we recommend to others, based on this data?
3. Which stock and sector had the greatest Increase? Decrease?
4. What patterns are identifiable across the stock market sectors?