Data Project 2

Topic Proposal

Group I:

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This research aims to examine the impact of various global stock markets, including those in the USA, UK, India, and others, on global inflation rates, currency rates. Stock markets are an essential component of a country's financial system and can have far-reaching effects on the overall economy. This study will investigate the interplay between the performance of these stock markets and global inflation trends, seeking to identify the mechanisms through which they affect inflation rates.

SMART Research Questions:

1. How do fluctuations in stock market indices (e.g., S&P 500, FTSE 100, Nifty 50) in different countries correlate with changes in global inflation rates?
2. How does the prices of commodities such as Gold, Silver, Crude Oil, Natural Gas, Nasdaq and S&P 500 affect the strength of the of the U.S. Dollar?
3. How does the performance of the commodities market, including Crude Oil and Natural Gas, impact global inflation?
4. Do indices specific to precious metals (Gold Index and Silver Index) exhibit distinct relationships with global inflation compared to individual commodity prices?
5. how do fluctuations in FED Interest Rates, LIBOR Index, and US 10-Year Bond yields influence the U.S.A inflation trends?

In our previous data project, we did the EDA on our data. this EDA consisted of doing line plots, scatter plots, and some correlation tests. While we did find some negative and positive relationships between our different variables, we, in this project, will be running linear and logistic regression. We will also redo the correlation plot of the chosen Smart questions.

We did collect our data from Yahoo Finance. The different datasets downloaded incorporate more than 4,100 observations for each variables needed. By the end our research, we hope to better understand the influence of the stock markets and commodities on the global inflation trends.

Link to Github: <https://github.com/Manoj1634/Data-Science-Project1-Group1>.