Project 1 – Crypto Altcoin Analysis

Tasks:

1. ~~Research Crypto APIs to find out which one will work best for us. – Coinbase API - Pete~~
2. Pull historical data for alt coins data for every asset – Pull list of markets /USD – for each pair, pull data – put into a DF. – John & Pete – Need Newer Data - Pete
3. Clean data to remove data with small history. – Find oldest data point for each crypto, then remove assets that have less than 2 years of data. – Nozie
4. Decide what kind of graphs and/or plotting tool we want to use. - Team
5. To analyze the correlation of altcoin prices to the BTC price. - Alek
6. To analyze the price performance of alts and BTC. - Kai
7. Determine the top X alts that perform better than BTC. -
8. Pick 5 portfolios – one per person.
9. Compare portfolio performance between the 5 and also S&P 500.
10. See if there is a correlation or pattern relating to CPI and overall Portfolio Performance.
11. To learn about branches - <https://git-scm.com/book/en/v2/Git-Branching-Branches-in-a-Nutshell>
12. Find a Name for project and our team.

The technical requirements for Project 1 are as follows.

\* [ ] Use Pandas to clean and format your dataset(s).

\* [ ] Create a Jupyter Notebook describing the \*\*data exploration and cleanup\*\* process.

\* [ ] Create a Jupyter Notebook illustrating the \*\*final data analysis\*\*.

\* [ ] Use PyViz, Panel, Plotly Express, and Hvplot to create six to eight visualizations of your data (ideally, at least two per question you ask of your data), and then aggregate these visualizations into a dashboard.

\* [ ] Save PNG images of your visualizations to distribute to the class and instructional team and for inclusion in your presentation and your repo's README.md file.

\* [ ] Use one new Python library that hasn't been covered in class.

\* [ ] Optionally, use at least one API, if you can find an API with data pertinent to your primary research questions.

\* [ ] Create a README.md in your repo with a write-up summarizing your major findings. This should include a heading for each question you asked of your data and under each heading a short description of what you found and any relevant plots.

- - -