Testing Protocol for Eco-Cryptos

Team Members:

Julia Harrison, [julia@heartcenteredstrategies.org](mailto:julia@heartcenteredstrategies.org)

Johnny Schiliro, [j.schiliro@gmail.com](mailto:j.schiliro@gmail.com)

Harry Oestreicher, [harryo1968@gmail.com](mailto:harryo1968@gmail.com)

Hypothesis Statement:

Project Description / Outline:

* Create a formula that can be used to determine if a specific cryptocurrency meet the threshold to be considered “eco-friendly” or “eco-crypto”
* The definition of eco-crypto will be utilized to analyze the top performing coins in this series
* Bitcoin will be utilized as a control group to establish energy values used to create the formula
* Perform data analysis to rate the eco-cryptos against control group
* Produce specialized graphs and charts to visually demonstrate this comparison

Questions to Answer:

* How many eco-cryptos are currently being traded?
* What constitutes an eco-crypto?
* Which verification process is most energy efficient?
* How profitable are eco-cryptos in comparison to less energy efficient cryptocurrencies, such as Bitcoin and Ethereum?
* What are the energy costs associated with less energy efficient cryptocurrencies (Bitcoin and Ethereum) and if that was considered, what would the actual value of these coins be minus the energy costs?

List of Datasets & Technical Tools :

* Alpaca API
* Quandl (Nasdaq Data)
* Coinbase API
* Various peer-reviewed journal articles
* HVPlot
* Python
* Jupyter Lab
* Github

Breakdown of Tasks:

|  |  |  |
| --- | --- | --- |
| Tasks: | Assigned to: | Due Date: |
| Create project requirement document/project proposal | Julia | 5/14/22 |
| Conduct research to establish project scope | Julia | 5/14/22 |
| Research datasets that can be used to run protocol | Harry | 5/14/22 |
| Create Github Repo & folders with project data for everyone | Harry | 5/14/22 |
| Create hypothesis statement | Johnny | 5/16/22 |
| Compile documentation for use in project, including brainstorming sessions, meeting notes, etc. | Johnny | Ongoing |
| Create formula for eco-crypto protocol | Julia | 5/16/22 |
| Create dataset for eco-crypto energy values and upload as CSV file | Harry | 5/16/22 |
| Establish rated/ratios to equally compare cryptocurrencies that have different energy outputs per transaction | Johnny | 5/16/22 |
| Run protocol simulation to establish rated eco-cryptos | Johnny | 5/20/22 |
| Concatenate of protocol for 3 month, 6 month, 12 month establishing any trend | Harry | 5/20/22 |
| Run protocol for eco-cryptos against BTC & Ethereum | Julia | 5/20/22 |
| Concatenate results in 3 month, 6 month, 12 months | Johnny | 5/20/22 |
| Create a variety of visualizations to demonstrate eco-cryptos versus BTC | Harry | 5/22/22 |
| Oversee readme file, summarizing the project, the findings, and sample of a few visualizations | Julia | 5/22/22 |
| Conduct project management of assigned tasks, communicate progress with group | All | 5/24/22 |
| Create presentation for sharing findings | All | 5/24/22 |
| Attend daily 10-15min huddles on zoom | All | Ongoing |
| Consistently update Github with new info | All | 5/24/22 |
|  |  |  |