Pepperdine Fintech

Dollar Cost Average Algorithm strategy applied to Crypto VS Stocks

Project 2

OVERVIEW

Our Project is to build a Dollar Cost Averaging Algorithm. We will Run The DCA algorithm against the top 10 Cryptos, we will then run The same DCA algorithm against top 8 stocks . We will compare the performance of the algorithm in each market and conclude which market with this algorithm will perform the best. If time allows we would like to build more algorithms using different investing strategies comparing the results from the 2 markets.

GOALS

1. Build a working dollar cost averaging algorithm using JupyterLab
2. Retrieve the top 10 crypto currencies by market cap, create a crypto portfolio and apply the DCA algorithm.
3. Retrieve the top 8 stocks by market cap, create a stock portfolio and apply the DCA algorithm.
4. Compare returns from each portfolio and determine which market the algorithm produces the best results