

Python Portfolio Management Project – Equal Weight Portfolio

1. Using five years of historical data from Yahoo! Finance, (ended 6/30/21), construct and analyze the performance of a portfolio that fits the following description:
 - a. Begins with the following securities: TLT, VTI, VTV, VBR, AGG
 - b. Rebalances the portfolio to equal weight each security in the portfolio at the beginning of each month
 - c. Reinvests dividends into the securities that paid them
 - d. Midway during the time period, (12/31/19), the portfolio replaces AGG with SHV during an otherwise normal rebalance
2. Using this constructed track record, calculate the following performance metrics for the portfolio:
 - a. Cumulative Return
 - b. Sharpe Ratio (vs. a RF of your choice)
 - c. Information Ratio (vs. a benchmark of your choice)
 - d. Sortino Ratio (vs. a benchmark of your choice)
 - e. CAPM Beta (vs. a benchmark of your choice)

Provide:

1. The metrics both since inception and over rolling six-month timeframes.
2. An explanation of how each metric can and can't be interpreted, in this context.
3. A short explanation of why you chose the benchmark(s).
4. Any other analysis/visualization of the portfolio you find valuable

Examples below:

- a. Turnover analysis
- b. Style analysis
- c. Macro exposure analysis