**Project Objectives**

* In this exercise, I will code the algorithm to plot the efficiency frontier of a portfolio of stocks within the equity asset class.
* This will be of interest to fund managers who needs to regularly rebalance their fund allocations to meets the objectives of their funds.
* We will also be looking at how the efficiency frontier has shifted from the pre-Covid period.

**Assumptions**

* I am assuming a scenario where a fund manager is regularly monitoring the performance of the fund and will use the efficiency frontier as one of the matrices to measure the fund performance and update the fund allocation when necessary.
* The fund currently holds the following stocks: FB, AAPL, AMZN, IBM, GOOGL, MSFT, NVDA, O, QCOM, TSLA.

**Ideas and inspirations**

* Portfolio optimization (https://en.wikipedia.org/wiki/Portfolio\_optimization)
* Modern Portfolio Theory (<https://www.investopedia.com/terms/m/modernportfoliotheory.asp>)

**Data**

* Stock data are taken from RapidAPI Hub (www.rapidapi.com) and Alpha Vantage (<https://rapidapi.com/alphavantage/api/alpha-vantage/>)