

AF3214

Week 8. Introduction to Risk Measures and Measuring Algorithms Performance

Part 2: Efficient Frontier

Efficient Frontier

Review of efficient frontier:

The efficient frontier is the set of optimal portfolios that either:

(1) offer the highest expected return for a given level of risk

OR

(2) offer the lowest risk for a given level of expected return.

Using the portfolio of Apple and Amazon, we will look for the optimal weights with the highest sharpe ratio.

We will use the expected returns and we will simulate 6000 different weight scenarios, and then we will plot out the Efficient frontier.

```
In [7]: # Import pandas and numpy
import pandas as pd
import numpy as np
```

```
In [8]: # Create an empty dictionary. We name it as "stock_data"
stock_data = {}
```

```
In [9]: from alpha_vantage.timeseries import TimeSeries
import time

# If you want to download the data please use your alpha vantage key
ts = TimeSeries(key='Input Your Key', output_format='pandas')

tickers = ['AAPL', 'AMZN']

for ticker in tickers:
    filename = ticker + '.csv'
```

```

data, meta_data = ts.get_daily(symbol= ticker , outputsize='full')
stock_data[ticker] = data
data.to_csv(filename)
time.sleep(5)

```

In [10]: stock_data

```

Out[10]: {'AAPL':          1. open   2. high   3. low  4. close   5. volume
date
2025-04-24    204.890    208.8299    202.9400     208.37  47310989.0
2025-04-23    206.000    208.0000    202.7990     204.60  52929165.0
2025-04-22    196.120    201.5900    195.9700     199.74  52976371.0
2025-04-21    193.265    193.8000    189.8112     193.16  46742537.0
2025-04-17    197.200    198.8335    194.4200     196.98  52164675.0
...
1999-11-05     84.620     88.3700     84.0000     88.31  3721500.0
1999-11-04     82.060     85.3700     80.6200     83.62  3384700.0
1999-11-03     81.620     83.2500     81.0000     81.50  2932700.0
1999-11-02     78.000     81.6900     77.3100     80.25  3564600.0
1999-11-01     80.000     80.6900     77.3700     77.62  2487300.0

[6409 rows x 5 columns],
'AMZN':          1. open   2. high   3. low  4. close   5. volume
date
2025-04-24    180.915    186.74    180.180     186.54  43763196.0
2025-04-23    183.450    187.38    180.190     180.60  63470149.0
2025-04-22    169.845    176.78    169.350     173.18  56607202.0
2025-04-21    169.600    169.60    165.285     167.32  48126111.0
2025-04-17    176.000    176.21    172.000     172.61  44726453.0
...
1999-11-05     64.750     65.50     62.250     64.94  11091400.0
1999-11-04     67.190     67.19     61.000     63.06  16759200.0
1999-11-03     68.190     68.50     65.000     65.81  10772100.0
1999-11-02     69.750     70.00     65.060     66.44  13243200.0
1999-11-01     68.060     71.88     66.310     69.13  12824100.0

[6409 rows x 5 columns]}

```

```

In [11]: stock_final_data = pd.DataFrame()
for ticker in tickers:
    # Ensure the index is sorted before slicing
    stock_data[ticker] = stock_data[ticker].sort_index()
    stock_final_data[ticker] = stock_data[ticker].loc[:'2024', '4. close']

```

In [12]: stock_final_data

Out[12]:

	AAPL	AMZN
date		
1999-11-01	77.62	69.13
1999-11-02	80.25	66.44
1999-11-03	81.50	65.81
1999-11-04	83.62	63.06
1999-11-05	88.31	64.94
...
2024-12-24	258.20	229.05
2024-12-26	259.02	227.05
2024-12-27	255.59	223.75
2024-12-30	252.20	221.30
2024-12-31	250.42	219.39

6332 rows × 2 columns

```
In [13]: stock_final_data = stock_final_data.sort_values(by='date')
stock_log_ret = np.log(stock_final_data) - np.log(stock_final_data.shift(1))
stock_log_ret = stock_log_ret.drop(stock_log_ret.index[0])
```

```
In [14]: stock_log_ret
```

Out[14]:

	AAPL	AMZN
date		
1999-11-02	0.033322	-0.039690
1999-11-03	0.015456	-0.009527
1999-11-04	0.025680	-0.042685
1999-11-05	0.054571	0.029377
1999-11-08	0.087342	0.183245
...
2024-12-24	0.011413	0.017573
2024-12-26	0.003171	-0.008770
2024-12-27	-0.013331	-0.014641
2024-12-30	-0.013352	-0.011010
2024-12-31	-0.007083	-0.008668

6331 rows × 2 columns

Begin to Set Up

Set Up 1: Set up empty numpy arrays for weights, returns, volatility, and sharpe ratio

We need to use the "zeros" function in Numpy

```
In [15]: # sim_ports: we set up the amount of portfolios that will be simulated; you
sim_ports = 6000

# We will initialize some empty numpy arrays
# np.zeros: Return a new array of given shape and type, filled with zeros.
weights_of_stocks = np.zeros((sim_ports, len(tickers)), dtype=np.float64)

return_array = np.zeros(sim_ports, dtype=np.float64)
volatility_array = np.zeros(sim_ports, dtype=np.float64)
sharpe_array = np.zeros(sim_ports, dtype=np.float64)
```

```
In [16]: type(weights_of_stocks)
```

```
Out[16]: numpy.ndarray
```

```
In [17]: weights_of_stocks
```

```
Out[17]: array([[0., 0.],
               [0., 0.],
               [0., 0.],
               ...,
               [0., 0.],
               [0., 0.],
               [0., 0.]], shape=(6000, 2))
```

Set Up 2: Set up simulation

```
In [18]: # Now we will simulate all portfolios and their returns

for x in range(sim_ports):
    # Set up a specific seed for each loop (we are setting a seed so the res
    np.random.seed(x)

    # Create random weights
    weights = np.array(np.random.random(2))
    print(weights)

    weights = weights/np.sum(weights)
    print(weights)

    # Save Weights to our array
    weights_of_stocks[x,:] = weights
    print(weights_of_stocks)
```

```
# Calculating the expected return for the portfolio
return_array[x] = ((np.sum(stock_log_ret.mean() * weights)))*252

# Calculating the Volatility
volatility_array[x] = np.sqrt(np.dot(weights.T, np.dot(stock_log_ret.cov

# Calculating Sharpe Ratio (assume risk-free rate=0)
sharpe_array[x] = (return_array[x]-0)/volatility_array[x]
print(sharpe_array[x])
```

```
[0.5488135  0.71518937]
[0.43418691 0.56581309]
[[0.43418691 0.56581309]
 [0.         0.         ]
 [0.         0.         ]
 ...
 [0.         0.         ]
 [0.         0.         ]
 [0.         0.         ]]
0.08391223984344463
[0.417022    0.72032449]
[0.36666223 0.63333777]
[[0.43418691 0.56581309]
 [0.36666223 0.63333777]
 [0.         0.         ]
 ...
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[0.4359949   0.02592623]
[0.94387303 0.05612697]
[[0.43418691 0.56581309]
 [0.36666223 0.63333777]
 [0.94387303 0.05612697]
 ...
 [0.         0.         ]
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 ...
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 ...
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 ...
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```

```

In [19]: print('Max Sharpe Ratio is: {}'.format(sharpe_array.max()))
         print('Index of Max Sharpe Ratio is: {}'.format(sharpe_array.argmax()))

```

```

Max Sharpe Ratio is: 0.08777738032667563
Index of Max Sharpe Ratio is: 5898

```

```

In [20]: # Print the weights of the portfolio with the max Sharpe ratio
         print(weights_of_stocks[sharpe_array.argmax(),:])

```

```

[0.60783088 0.39216912]

```

```

In [21]: max_sharpe_ret = return_array[sharpe_array.argmax()]
         max_sharpe_vol = volatility_array[sharpe_array.argmax()]

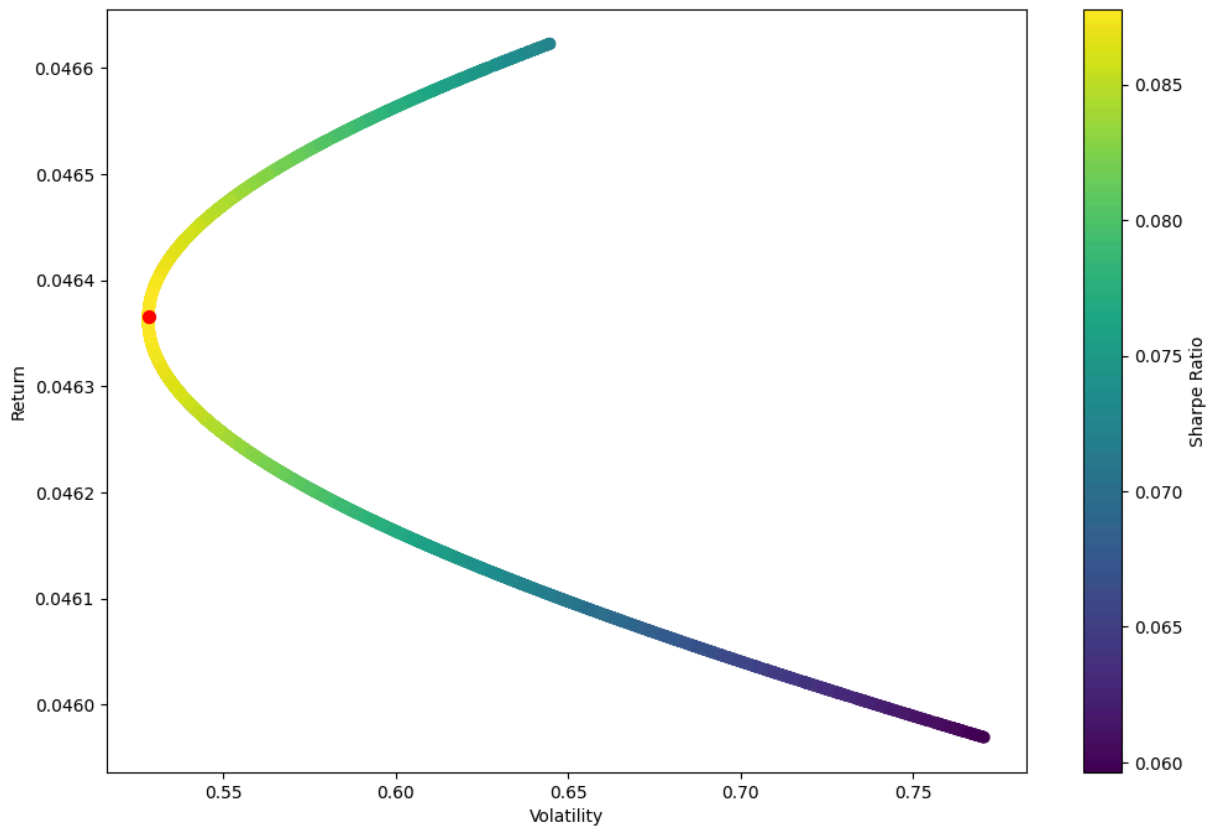
```

```

In [22]: import matplotlib.pyplot as plt
         %matplotlib inline

         plt.figure(figsize=(12,8))
         plt.scatter(volatility_array, return_array, c=sharpe_array, cmap='viridis')
         plt.colorbar(label='Sharpe Ratio')
         plt.xlabel('Volatility')
         plt.ylabel('Return')
         plt.scatter(max_sharpe_vol, max_sharpe_ret, c='red', s=50) # red dot
         plt.show()

```



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