Stock_Omega_Ratio_Chart

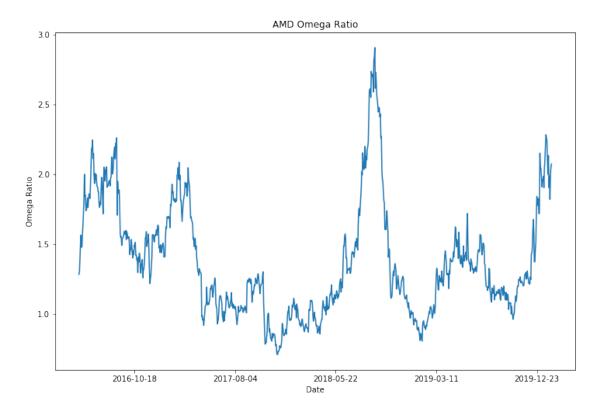
September 29, 2021

1 Stock Omega Ratio Chart

```
[1]: # Library
    import pandas as pd
    import numpy as np
    import matplotlib.pyplot as plt
    import warnings
    warnings.filterwarnings("ignore")
    from pandas_datareader import data as pdr
    import yfinance as yf
    yf.pdr_override()
[2]: start = '2016-01-01' #input
    end = '2020-07-01' #input
    symbol = 'AMD'
[3]: df = yf.download("AMD", start, end)
    [********* 100%*********** 1 of 1 completed
[4]: returns = df['Adj Close'].pct_change()[1:].dropna()
[5]: # risk free
    rf = yf.download('BIL', start=start, end=end)['Adj Close'].pct_change()[1:]
    [******** 100%********** 1 of 1 completed
[6]: def omega_ratio(stock_returns):
        annual_return_threshhold = 0.0
        daily_return_thresh = pow(1 + annual_return_threshhold, 1 / 252) - 1
        returns_less_thresh = stock_returns - daily_return_thresh
        numer = sum(returns less thresh[returns less thresh > 0.0])
        denom = -1.0 * sum(returns_less_thresh[returns_less_thresh < 0.0])</pre>
```

```
if denom > 0.0:
    omega_ratio = numer / denom
else:
    print('none')
return omega_ratio
```

[7]: Text(0, 0.5, 'Omega Ratio')



```
[8]: omega_ratio(returns)
```

[8]: 1.2845521725983073