etrade_performance_analysis

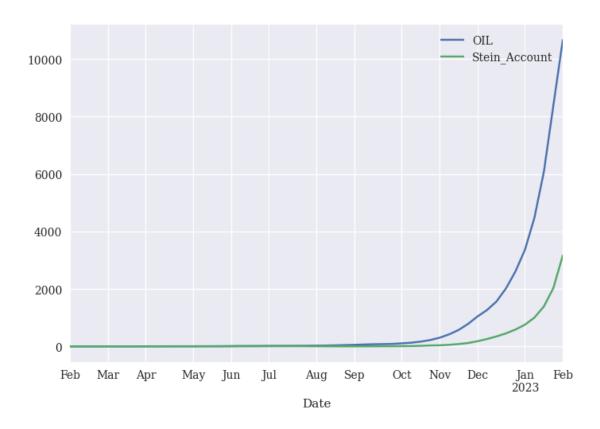
February 5, 2023

1 My Historical Performance



```
[]: (1+performance[['OIL','Stein_Account']]).cumprod().plot()
plt.figure(figsize=(12,6))
```

[]: <Figure size 1200x600 with 0 Axes>



<Figure size 1200x600 with 0 Axes>

Slice the data frame starting June 17,2022 - That is when you started really trading

```
df_performance = performance.loc['2022-06-17':]
    df_performance.describe()
[]:
                               SPY
           Stein_Account
                                       NASDAQ
                                                RUT2000
                                                              OIL
                                                        34.000000
    count
               34.000000
                         34.000000
                                    34.000000
                                              34.000000
                0.249618
                         -0.114888
                                    -0.175244
                                              -0.076788
                                                          0.217615
    mean
                0.259403
                                     0.050931
                                               0.046519
                                                          0.113838
    std
                          0.038901
    min
               -0.318900
                        -0.191500
                                   -0.250500
                                              -0.154300
                                                         0.014100
    25%
                0.105400
                        -0.133400
                                    -0.214700
                                              -0.105450
                                                          0.110125
                0.298850
                         -0.115950
    50%
                                    -0.181250
                                              -0.083900
                                                          0.220150
    75%
                0.441625
                         -0.086175
                                    -0.155175
                                              -0.042600
                                                          0.317775
                0.665000 -0.034200
    max
                                    -0.052500
                                               0.024400
                                                          0.388600
[]: def performance(df, annualization = 52):
        perf_df = pd.DataFrame(data = None, columns = ['Mean',_
      for i in df.columns:
            perf_df.loc[i,'Mean'] = df[i].mean()*annualization
```

```
perf_df.loc[i, 'Sigma'] = df[i].std()*np.sqrt(annualization)
      perf_df.loc[i, 'Sharpe'] = df[i].mean()*annualization/(df[i].std()*np.
⇔sqrt(annualization))
      perf_df.loc[i,'Kurtosis'] = df[i].kurtosis()
      perf_df.loc[i,'Var(5%)'] = (df[i].std()*np.sqrt(annualization))*-1.65
  return perf df.style.format('{:,.2%}')
```

```
[]: performance(df_performance)
```

- []: <pandas.io.formats.style.Styler at 0x1f7631ec100>
 - Annualized I am getting almost a 1300% return with a standard deviation of 187% which is absolutely insane after 6 months of trading because your risk is just too high.

```
[]: df_performance.columns
[]: Index(['Stein_Account', 'SPY', 'NASDAQ', 'RUT2000', 'OIL'], dtype='object')
[]: plt.figure(figsize = (12,8))
     plt.plot(df_performance['Stein_Account'], c = 'r', label = 'Stein Brokerage')
     plt.plot(df_performance['OIL'], c = 'g', label = 'AMEX OIL')
     plt.plot(df_performance['SPY'], c = 'b', label = 'SPY')
     plt.plot(df_performance['NASDAQ'], c = 'y', label = 'NASDAQ')
     plt.plot(df_performance['RUT2000'], c = 'm', label = 'Russell 200')
     plt.legend(loc = 0)
     plt.title('Performance of Major Indices and MY Account')
     plt.xlabel('Date', size = 20)
     plt.ylabel('Return', size =20 )
```

[]: Text(0, 0.5, 'Return')

