



Portfolio Analysis

Equity ▼

All ▼

Sector ▼

All ▼

- Name ▼
- ☐ Academy Sports and Outd...
 - ☐ Adams Resources & Energ...
 - ☐ AdaptHealth Corp.
 - ☐ Allison Transmission Holdi...

↶

\$2.14

True Range

26.4

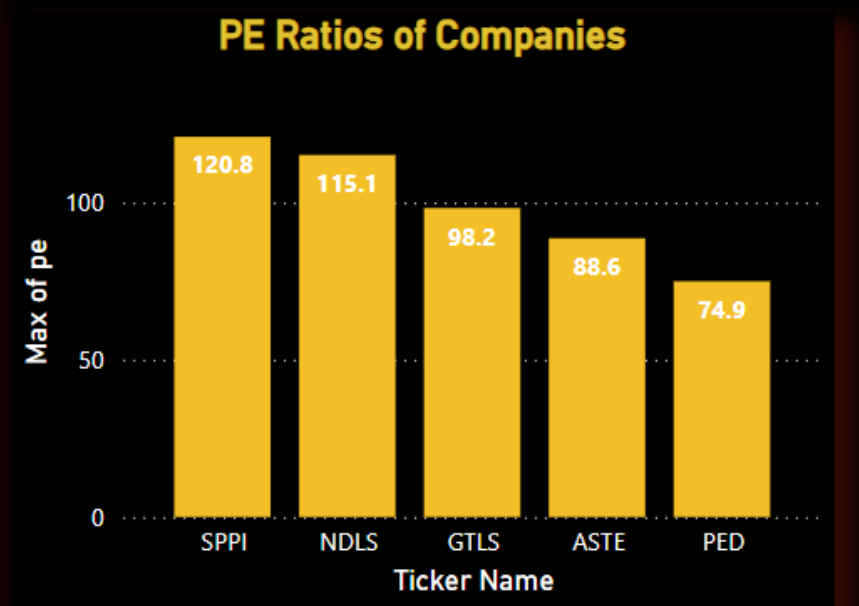
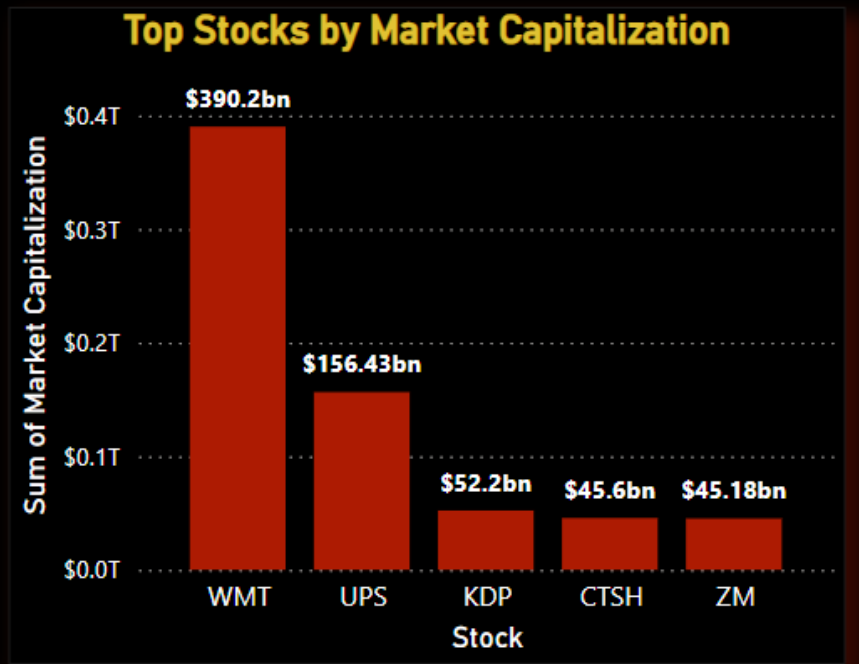
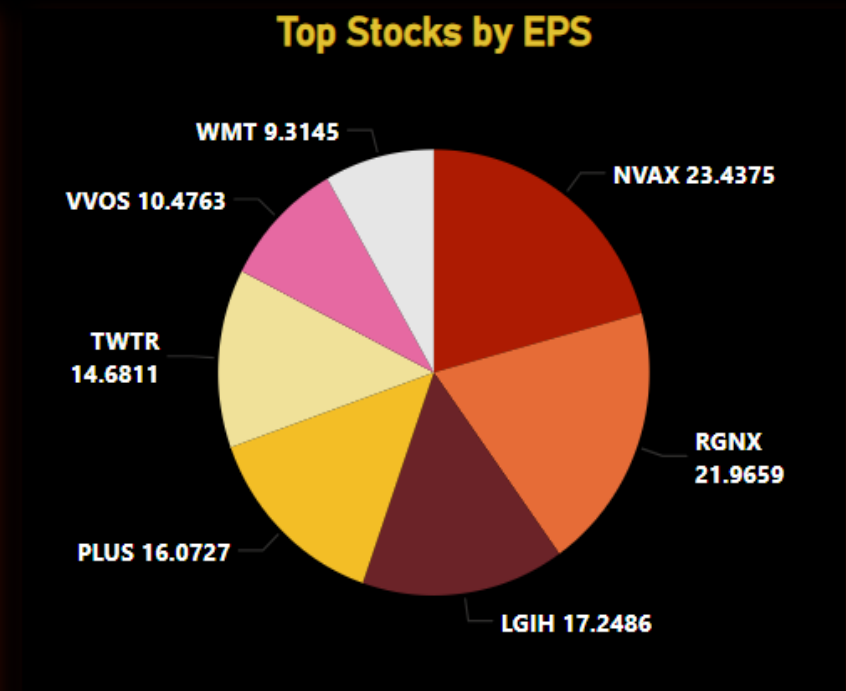
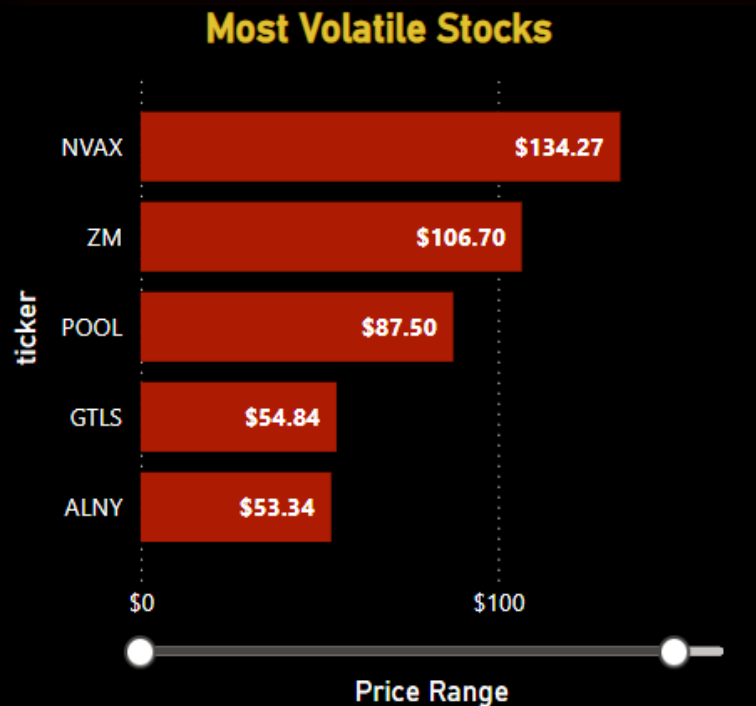
P-E Ratio

5.95

ROA

58

ROE



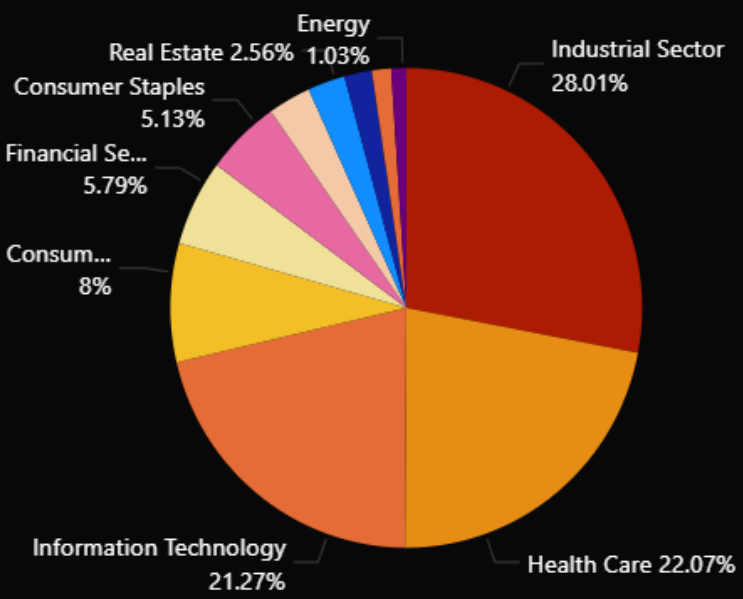


Portfolio Analysis

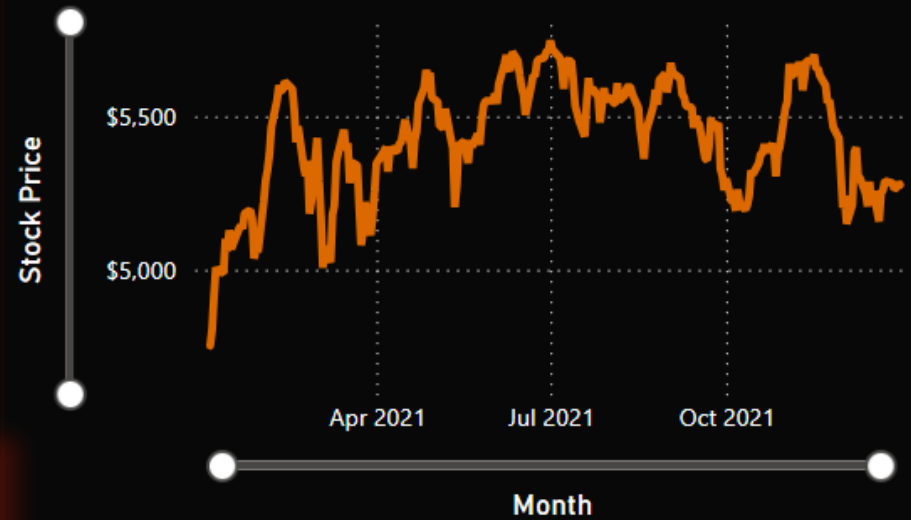
Current Price of Portfolio

Name	Last	High	Low	Volume
MGYR	\$12.39	\$12.39	\$12.39	0
FUSB	\$10.56	\$10.56	\$10.56	100
JCTCF	\$8.63	\$8.90	\$8.63	3,800
CBFV	\$24.10	\$24.50	\$24.02	4,100
WINA	\$244.70	\$248.89	\$242.81	4,500

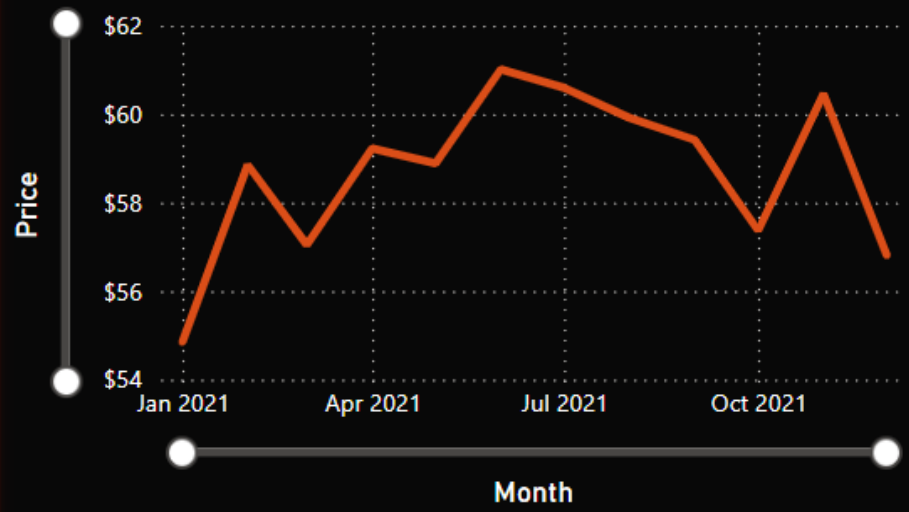
Value of Investment per sector



Stock Price Current Year



MoM Moving Average



Equity
All

-19.32%
ROI

\$507.66K
Pot of Investment

\$409.58K
Current Pot Value

Top Gainers

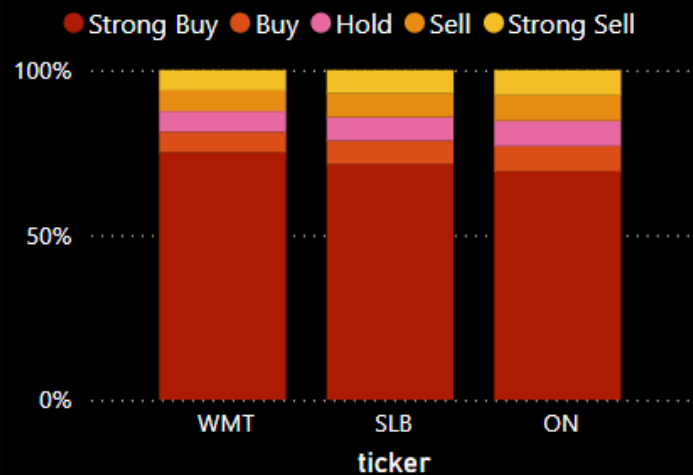
Name	Top Gainers
DURECT Corporation	152.63%
ON Semiconductor Corporation	106.57%
PLBY Group, Inc.	149.39%
Soluna Holdings, Inc.	132.70%
Stagwell Inc.	145.71%

Top Losers

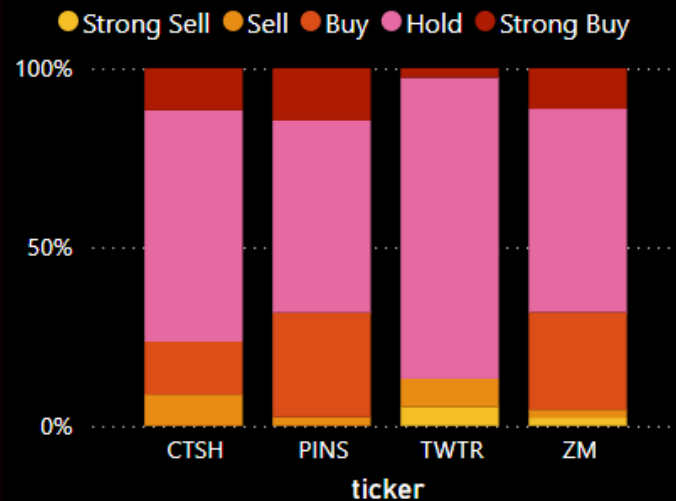
Name	Top Losers
Metacrine, Inc.	-94.56%
Spectrum Pharmaceuticals, Inc.	-88.60%
Cyclacel Pharmaceuticals, Inc.	-80.60%
ALX Oncology Holdings Inc.	-80.46%
Oil States International, Inc.	-75.42%

Portfolio Analysis

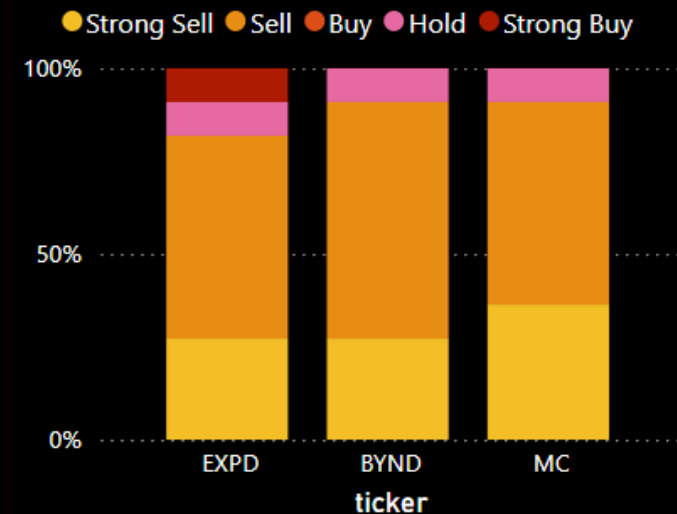
Strong Buy's



Top Holdings



Strong Sell's



Market Indices of Developing Countries



Dollar vs Euro Exchange Rate



Cryptocurrency trend in 2021



Code1: General Information

Code

```
finnhub_client = finnhub.Client(api_key="cf0ntpqqad3i62koq2cb0cf0ntpqqad3i62koq2cbg")
ticker=pd.read_csv('/Users/peterguo/Desktop/Bitcoin 1/output_next2.csv')
#1. General Information
# first 60
list1=[]
first=ticker.iloc[0:60,0] *
for a in first:
    list1.append(finnhub_client.company_profile2(symbol=a))
list1=pd.DataFrame(list1)
# generate excel
list1.to_excel('first.xlsx')
```

Result

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
		country	currency	exchange	finnhubIndustry	ipo	logo	marketCapitalization	name	phone	shareOutstanding	ticker	weburl			
1																
2	0	US	USD	NYSE MKT LLC	Energy	1981-05-22	https://stati	120.903516	Adams Resc	1713881360	2.4524	AE	http://www.adamsresources.com/			
3	1	US	USD	NASDAQ NMS - GLOBE	Health Care	2018-02-21	https://stati	2895.383648	Adapthealth	1610630635	134.732	AHCO	https://adapthealth.com/investor-relations/			
4	2	US	USD	NEW YORK STOCK EX	Financial Services	2014-04-10	https://stati	8066.453151	Ally Financi	1866710462	298.647	ALLY	https://www.ally.com/			

Highlight

* Divided into two parts due to Finnhub limitations

Code2: Metrics

Code

```
#2.Metrics
import json
ticker=pd.read_csv('/Users/peterguo/Desktop/Bitcoin 1/output_next2.csv')
list1=[]
first=ticker.iloc[0:60,0]
for a in first:
    list1.append(finnhub_client.company_basic_financials(symbol=a, metric=all))

b=list(range(60))
lista=[]
for c in b:
    lista.append(list1[c]['series']['annual'])

json_data=json.dumps(lista)
text = json.loads(json_data) *
list=pd.DataFrame(text)
list.to_excel('firstmetric.xlsx')
```

Result


	A	B	C	D	E	F	G	H	I	J	K
1		bookValue	cashRatio	currentRatio	debtPerShare	eps	ev	fcfMargin	grossMargin	termDebtTotal	termDebtTotalC
2	0	{'period': '2021-12-31', 'v': 160.386}, {'period': '2020-12-31', 'v': 149.092}	{'period': '2021-12-31', 'v': 0.16}	{'period': '2021-12-31', 'v': 1.1}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}
3	1	{'period': '2021-12-31', 'v': 2061.906}, {'period': '2020-12-31', 'v': 354.9}	{'period': '2021-12-31', 'v': 0.16}	{'period': '2021-12-31', 'v': 1.1}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}
4	2	{'period': '2021-12-31', 'v': 17050}, {'period': '2020-12-31', 'v': 14703}, {'period': '2019-12-31', 'v': 14703}	{'period': '2021-12-31', 'v': 0.16}	{'period': '2021-12-31', 'v': 1.1}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}	{'period': '2021-12-31', 'v': 0.0}

Highlight

* Used Json function for converting to dataframe

Code3: Period Price

Code

```
#3.Period Price
ticker=pd.read_csv('/Users/peterguo/Desktop/Bitcoin 1/All_final version.csv')
perioda={}
firsta=ticker.iloc[0:36,11]
for c in firsta:
    perioda[c]=(get_data(c, start_date="01/01/2021", end_date="01/01/2022", interval="1d"))
combined_statsa = pd.concat(perioda)  1
combined_statsa = combined_statsa.reset_index()  2
combined_statsa.to_excel('period_price_first.xlsx')
```

Result

	A	B	C	D	E	F	G	H	I	J
1		level_0	level_1	open	high	low	close	adjclose	volume	ticker
2	0	AE	2021-01-04 00:00:00	24	24.3799992	23.25	23.8799992	22.4471779	10900	AE
3	1	AE	2021-01-05 00:00:00	24.2600002	24.2999992	23.1200008	23.6599998	22.2403831	19400	AE
4	2	AE	2021-01-06 00:00:00	24.8600006	24.8600006	23.0499992	23.4500008	22.0429821	17800	AE

Highlight

1. Used concat funcation combined dataframes
2. Added the serial number under column A

Code4: Market Capitalization

Code

```
#4. marketcapitalization
import yfinance as yf
ticker=pd.read_csv('/Users/peterguo/Desktop/Bitcoin 1/94 Tickers.csv')
mkticker=ticker["ticker"]
market_cap = {}
for aze in mkticker:
    stock = yf.Ticker(aze)
    data = yf.download(aze, start="2021-12-31", end="2022-01-01")
    closing_price = data.at['2021-12-31','Close']
    shares_outstanding = stock.info["sharesOutstanding"]
    market_cap[aze] = closing_price * shares_outstanding
market_cap = pd.DataFrame.from_dict(market_cap, orient='index', columns=['Market Capitalization'])
market_cap.to_excel('marketcapitalization for 94 tickers.xlsx')
```

Result

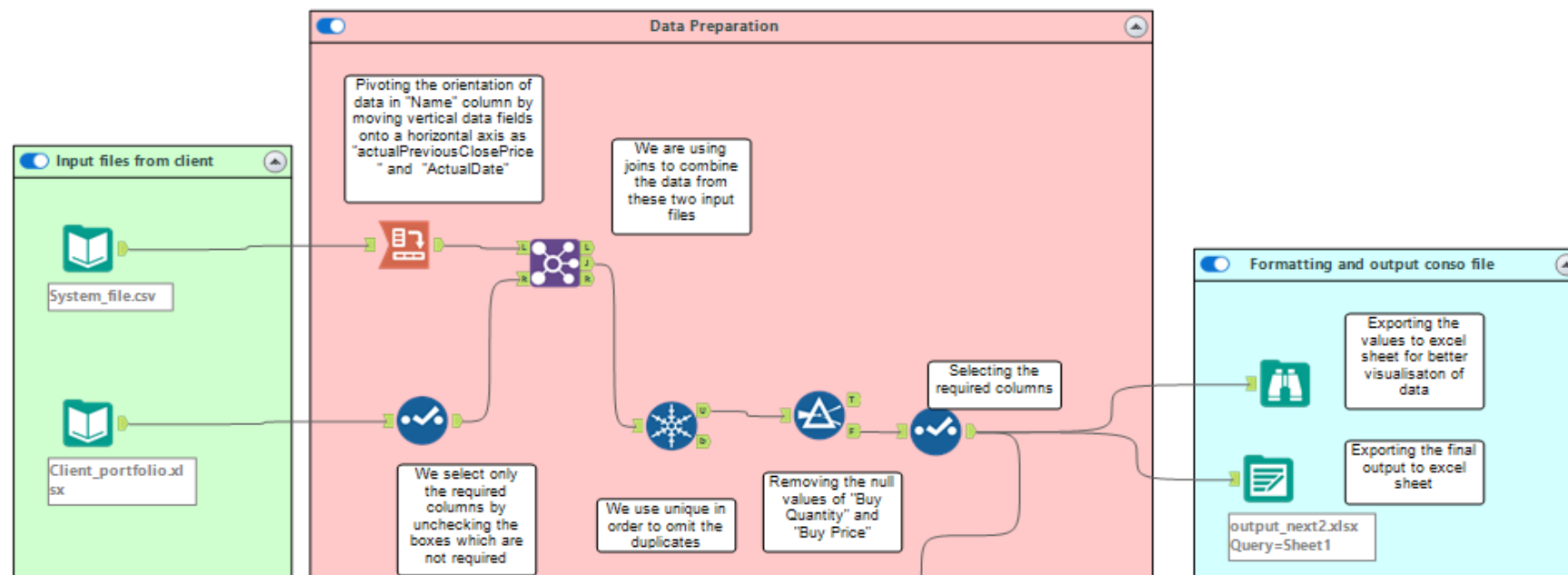
	A	B
1		Market Capitalization
2	AE	68201242.69
3	AHCO	3295544597
4	ALLY	14218584233

Highlight

Calculated market capitalization

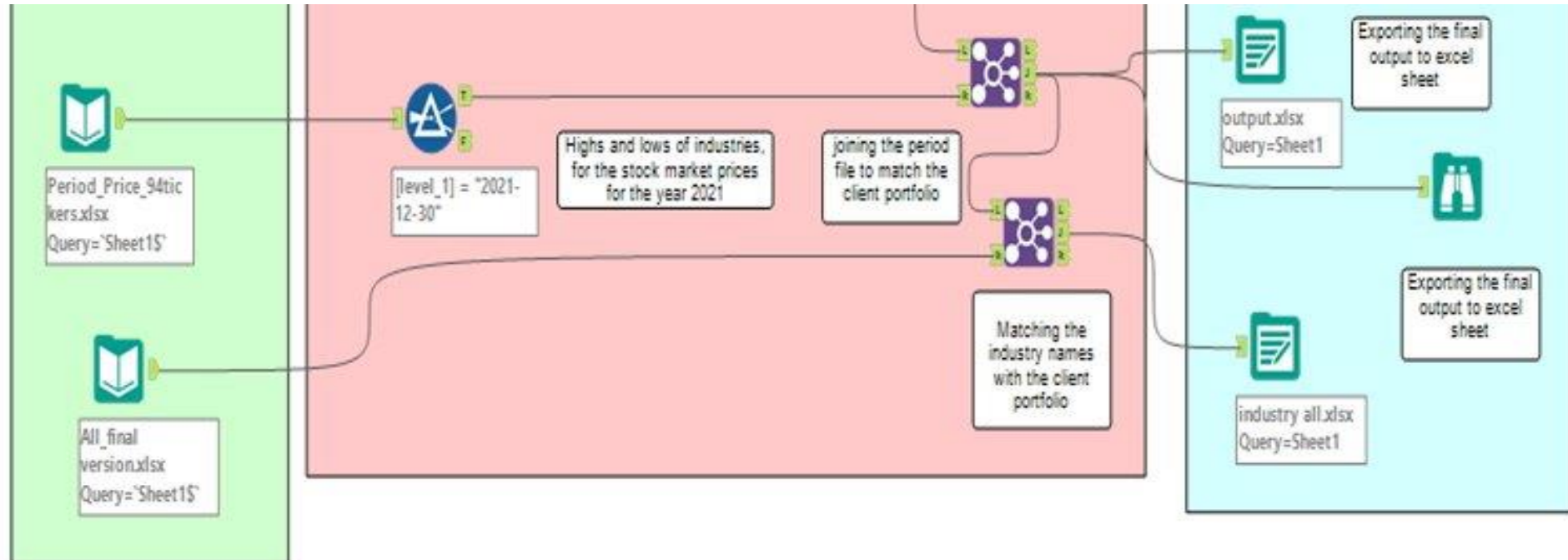
Alteryx for Data Cleaning

Data cleaning for portfolio analysis by Soundarya, Valeriia, Vivek and Yifei



Record	Name	ticker	buyPrice	buyQuantity	buyValuation	date	current price
1	Pedevco Corp.	PED	2.779999971	92	255,7599974	2021-12-30	1.03
2	Beyond Meat, Inc.	BYND	234.8999939	91	21375,89944	2021-12-30	67.389999
3	...	...	...	...	...	...	...

Alteryx for Data Cleaning



Record	Name	ticker	country	currency	exchange	industry
1	Pedevco Corp.	PED	US	USD	NYSE MKT LLC	Energy
2	Beyond Meat, Inc.	BYND	US	USD	NASDAQ NMS - GLOBAL MARKET	Food Products
3	...	...	...	...	...	...

Portfolio Analysis



Most likely the given portfolio is
Highly risky and short-term strategy

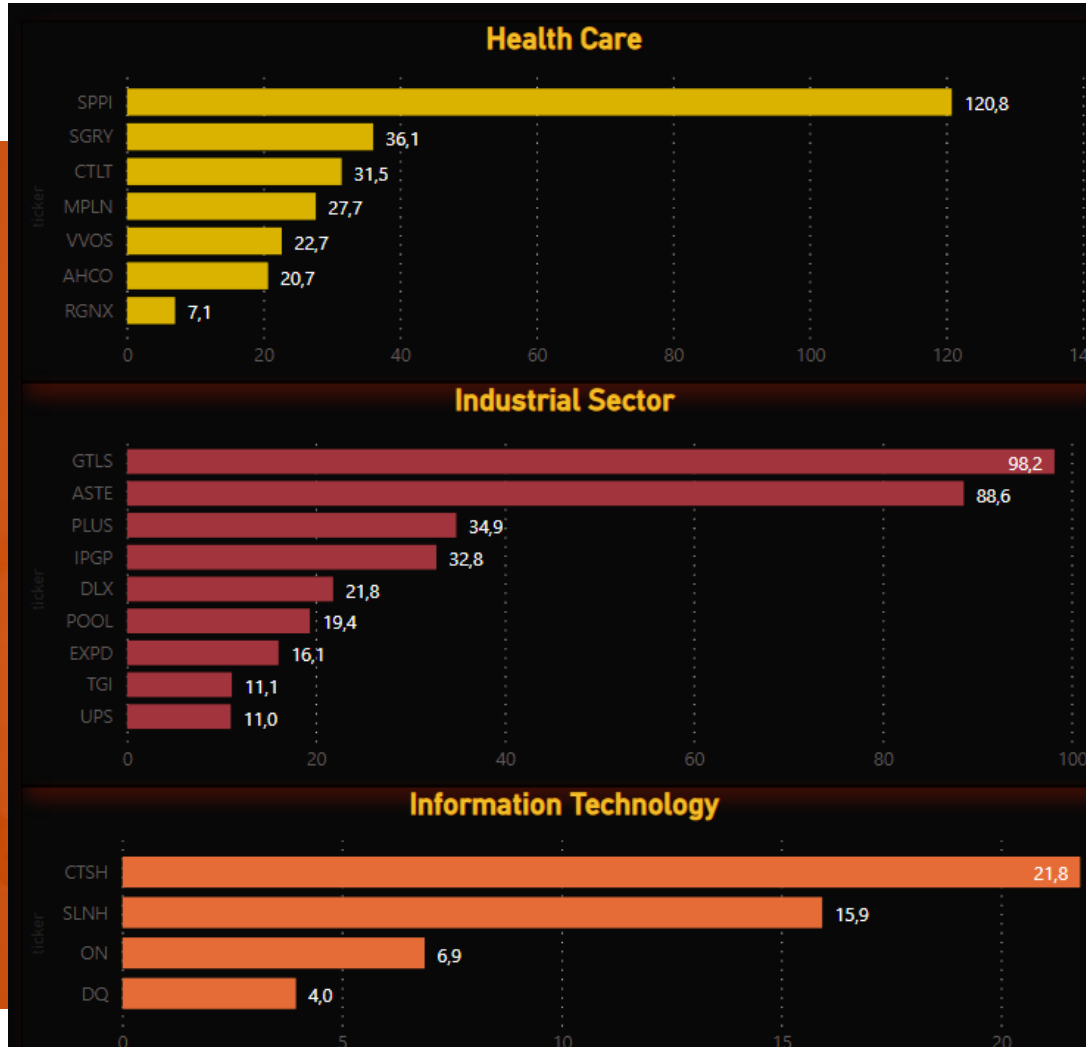
01

Consists of company shares only
(no bonds, ETFs,
currency, etc.)

02

**High volatility of
stock**

Top 5 companies to buy/sell from the portfolio.



Using P/E we decide to

Sell:

1. SPPI
2. GTLS
3. ASTE
4. CTSH
5. RGNX

Buy:

1. AHCO
2. TGI
3. ON
4. VVOS
5. EXPD

Portfolio Analysis

Performance

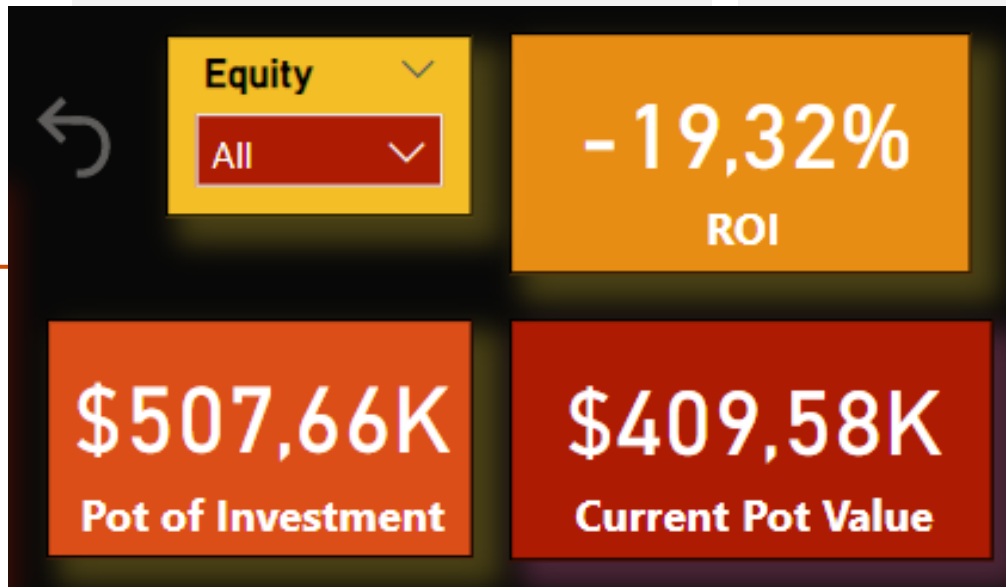
Likely poor: negative ROI

Diversification

Not well diversified:
Only has company shares

When to sell entire portfolio?

1. Hits the portfolio value target
2. Decides to use money for something else
3. In case of unforeseen circumstances, such as a market crash.



Most/least valuable industry

Top 3 industries per total stock value in this portfolio are Industrial Sector, Healthcare, IT – 70,8% of stock together

Bottom 3 industries: Energy, Materials, Utilities – 4% of stock

How to optimize the portfolio investment?



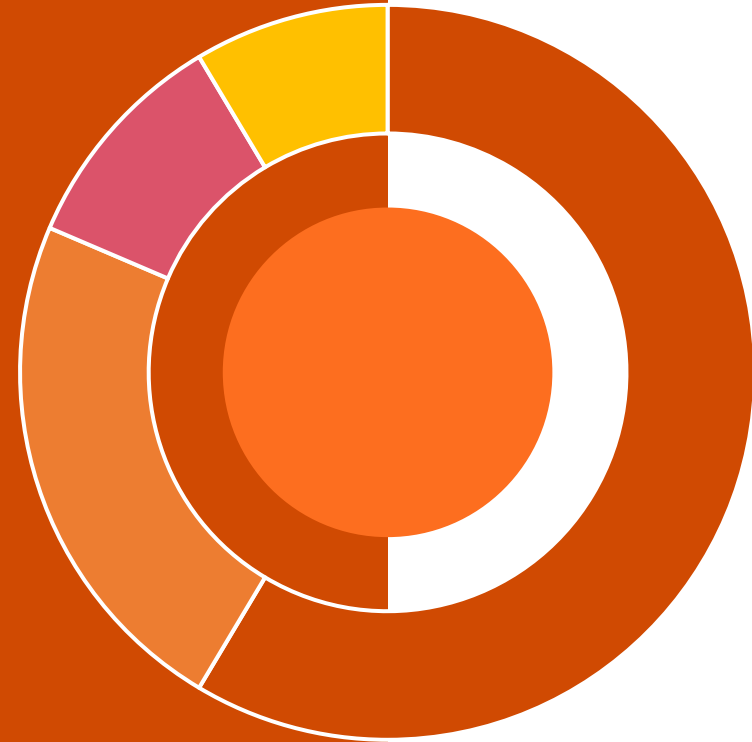
1. Sell extremely overvalued and undervalued stock



2. Diversify portfolio

1. Shares of funds, ETFs
2. Foreign currency
3. Bonds - a safe alternative and other financial instruments

Split portfolio into parts:
% high-risk, % medium-risk, % low-risk.



A grayscale background image showing a group of people in a meeting or collaborative work environment. In the foreground, a person's profile is visible on the left, looking towards the right. In the background, another person is partially visible, and a hand is seen writing on a notepad on a table. The image is overlaid with two horizontal bars: a yellow one at the top and an orange one below it.

Thank You

Questions?