

Agenda

To analyse a portfolio of stocks and provide **consultation on investment** management based on client's requirement to two different investors, based on their requirements and financial objectives.

- Mr Patrick Jyengar
- Mr Peter Jyengar

Pointers in Presentation

- Sector-wise Technical Analysis & Trend Analysis
- Volatility & Risk Assessment Based on Daily/Annualized Returns
- Stock assessment using **Derived Metrics**
- Assigning Portfolios

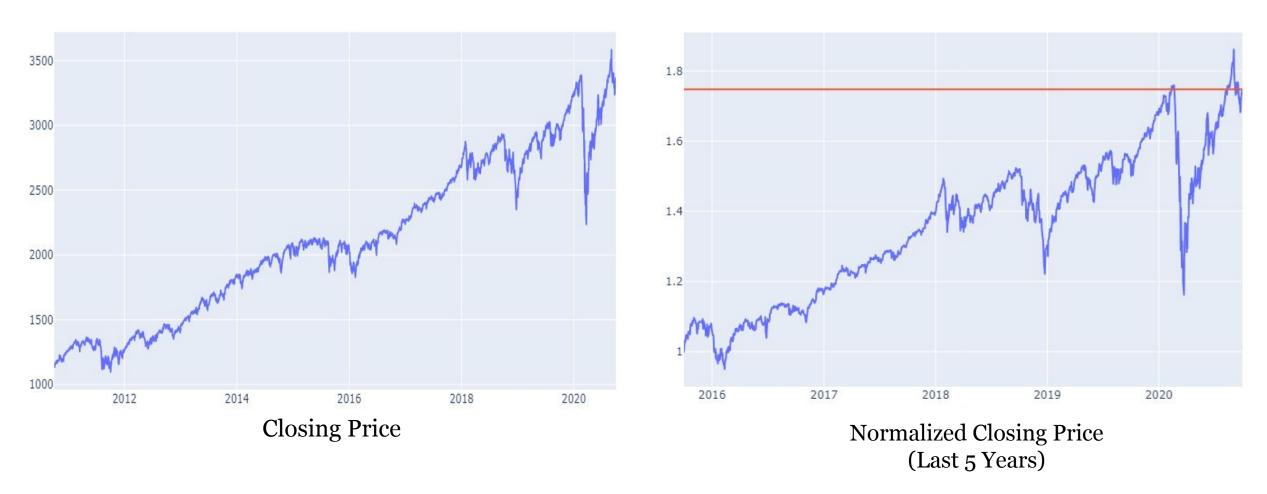
Investors

Mr. Patrick Jyengar

Mr. Peter Jyengar

Wants to maintain a decent standard of living Consistent with his attitude towards risk, he post his retirement. prefers high-return investments Has always been a conservative investor during Believes that he can still bounce back in case of his life any occasional losses Available capital of \$1 million; Wants to invest Wants to invest \$1 million from company's cash \$500K in a magazine (Naturo) for minority stake and cash equivalents in the most high-margin and remaining \$500K in equities stocks Expects doubling his capital with less risk in 5 Expects high returns within 5 years for inorganic years' time to buy a minority portion of Naturo expansion of JWW

Market Index (S&P 500)



S&P500 Gave about **75% returns** in Last **Five Years**

Sector-wise Analysis

We have Stocks of **4 Sectors**

Aviation

Stock	Company_Name
AAL	American Airlines Group Inc
ALGT	Allegiant Travel Company
ALK	Alaska Air Group Inc
DAL	Delta Air Lines Inc
НА	Hawaiian Holdings Inc
LUV	Southwest Airlines Co

Finance

Stock	Company_Name
BCS	Barclays
cs	Credit Suisse
DB	Deutsche Bank
GS	Goldman Sachs
MS	Morgan Stanley
WFC	Wells Fargo

Technology

Stock	Compa	ny_Name
AAPL	Apple Inc	
AMZN	Amazon	
FB	Facebook	
GOOG	Alphabet	
IBM	IBM	
MSFT	Microsoft	

Pharmaceutical/Healthcare

Stock	Company_Name
JNJ	Johnson & Johnson
MRK	Merck and CO inc.
PFE	Pfizer inc
UNH	UnitedHealthGroup Inc
BHC	Bausch Health Companies inc
RHHBY	Roche Holding AG

Aviation Sector



- It has not been performing very well and after travel restrictions due to Pandemic, It has taken the worst hit.
- DAL had shown a very weak up trend pre-covid while others had shown either down or sideways trend.

Normalized Closing Prices



All stocks in aviation sector have shown downtrend indicating no stock has performed better than S&P500

HA was the most volatile stock while LUV was the least

Finance Sector



Normalized Closing Prices

- MS has given a return close to that of S&P 500.
- Though GS has been overall profitable but has been declining since 2018.



All stocks in Finance sector have shown **downtrend indicating** no stock has performed better than S&P 500.



In Finance Sector **DB** was the **most volatile** stock while **GS** was the least.

Pharma/Healthcare Sector



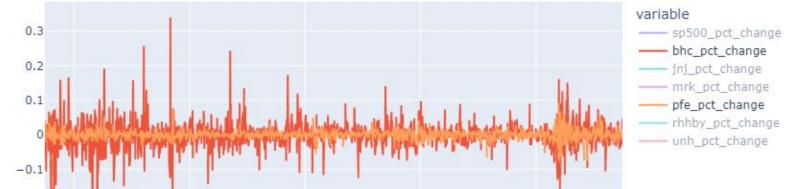
Normalized Closing Price

- Except BHC every other stock has given a positive return in 5 years
- In last 5 years **UNH** gave more then **100% returns** while **S&P 500** gave only about **75%**.
- MRK and JNJ have given similar returns as that of S&P500.
- BHC Due to a Lawsuit had to pay a \$1.2 Billion dollar fine which crashed its stock and haven't been able to recover since



UNH has shown a uptrend indicating it has performed better than the market index S&P 500

every other stock other than UNH has shown a downtrend



2019

2020

value

-0.3

-0.4

-0.5

2016

2017

2018

In Pharma_Healthcare
Sector BHC was the
most volatile stock
while PFE and RHHBY
was the least

Technology Sector

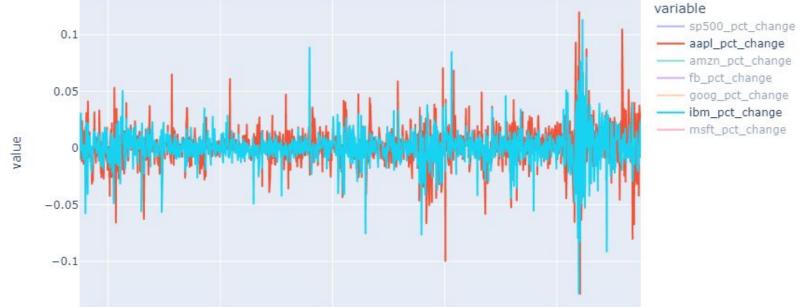


Except IBM every other stock in technology sector has given more then 100% returns

AMZN and GOOG stocks have outperformed every other stock in each sector



Except IBM every stock in Technology sector has shown uptrend indicating it has performed better than S&P 500



2019

2020

2018

2017

2016

In Technology Sector
FB was the most
volatile stock while
IBM was the least

Assessing Stocks on Derived Metrics

The Top 12 Stocks having highest Annualized Return Rate and Expected Returns:

- Technology Sector:
 - AMZN (40.89%)
 - o MSFT (35.08%)
 - o AAPL (33.16%)
 - o FB (26.66%)
 - o GOOG (21.09%)
- Finance Sector:
 - o MS (14.54%)
 - o GS (7.89%)
- Pharma_Healthcare Sector:
 - UNH (23.08%)
 - o MRK (12.86%)
 - o JNJ (11.30%)
 - o RHHBY (7.53%)
 - o PFE (5.52%)

Stock	Avg Daily Returns	Annualized F Return Rate	Cummulative Return Rate	Exp Returns
amzn	0.162 %	40.90 %	504.7 %	15.95 %
msft	0.139 %	35.08 %	371.5 %	20.31%
aapl	0.132 %	33.16 %	322.7 %	16.46 %
fb	0.106%	26.67 %	188.0 %	10.45 %
unh	0.094%	23.80 %	167.4%	11.65 %
goog	0.084%	21.10 %	140.4 %	12.10 %
ms	0.058 %	14.54 %	53.5 %	6.94 %
mrk	0.051%	12.86 %	68.0 %	7.15 %
jnj	0.045 %	11.31 %	59.8 %	7.37 %
gs	0.031%	7.90 %	14.2 %	4.17 %
rhhby	0.030 %	7.53 %	28.9 %	4.18 %
pfe	0.022 %	5.52 %	15.3 %	3.35 %

Volatility & Sharpe Ratio

Previous Top 12 Stocks(Ranked) with respect to Volatility (least to most):

• Technology Sector:

- o GOOG (26.22%) 5
- o MSFT (27.83%) 6
- o AAPL (29.72%) 8
- o AMZN (30.11%) 9
- o FB (32.66%) 11

• Finance Sector:

- o GS (31.58%) 10
- o MS (34.61%) 12

• Pharma Healthcare Sector:

- JNJ (19.77%) 1
- o RHHBY (21.45%) 2
- o PFE (21.95%)
- o MRK (22.32%)
- o UNH (28.26%)

Stock	Daily Volatility	Annualized E Volatility	Sharpe Ratio
jnj	1.25 %	19.77 %	0.53
rhhby	1.35 %	21.45 %	0.32
pfe	1.38 %	21.95 %	0.22
mrk	1.41 %	22.32 %	0.54
goog	1.65 %	26.22 %	0.78
msft	1.75 %	27.83 %	1.23
unh	1.78 %	28.26 %	0.82
aapl	1.87 %	29.72 %	1.09
amzn	1.90 %	30.11%	1.33
gs	1.99 %	31.58 %	0.23
fb	2.03 %	32.30 %	0.80
ms	2.18 %	34.61%	0.40

Peter Jyengar



With a equally weighted investment of **\$1 Million** total return gained were \$3.46 M which gives us a profit of 245.85 % i.e. **\$2.46** M

Patrik Jyengar



With a equally weighted investment of **\$500 k** total return gained were **\$1.32** M which gives us a profit of **164.34** % i.e **\$821** k

Conclusion

2 Portfolios were created

- · A High Risk High Return Portfolio for Mr. Peter Jyengar
- · A Low Risk Good Return Portfolio for Mr. Patrik Jyengar

Investing In stocks of these portfolios will help both individuals meet their financial requirements.