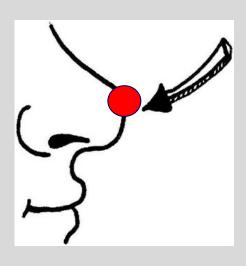
## **Investing for Successful Retirement**

**UD Osher – OLLI Spring 2024** 

- □ Rajeev A. Vaidya
- □ Ron Materniak
- □ Jane Roe-Fox

## Disclaimer in plain language

#### Disclaimer - in plain language:



Opinions are like noses, everyone has one!

You are going to see mine in this course!!

We are simply sharing our perspective.

This is not investment advice or recommendation.

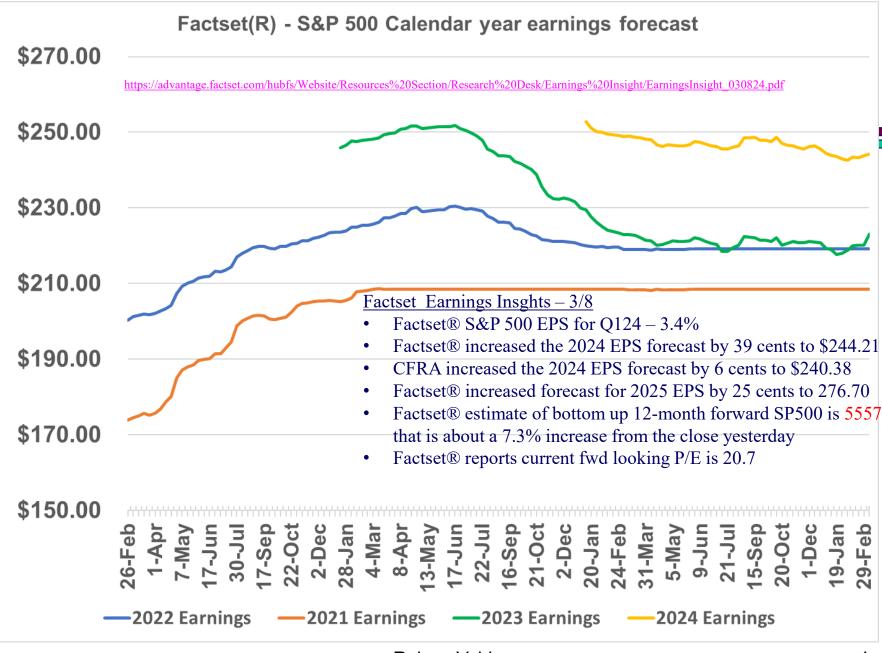
Ron, Jane and I are not a financial advisors.

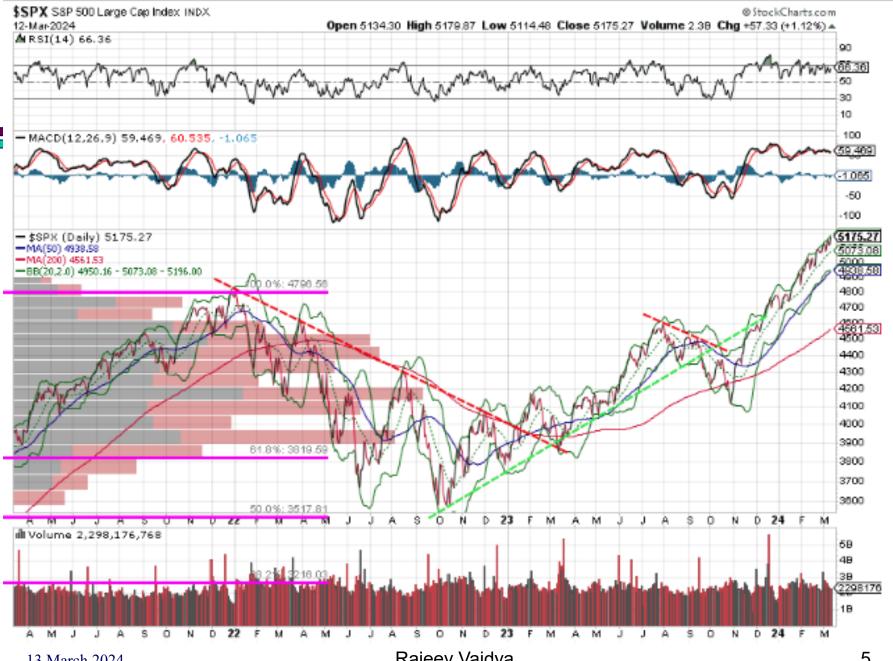
This course is for educational purposes only.

Form your own opinion, make your own investment decisions.

### Sixth Class - Mar. 13<sup>th</sup>

- US Equities Market Review 20 minutes
- ☐ ETFs deep dive Part 2
  - Performance metrics
  - Risk
  - ☐ ETFs for various asset classes







## **Market Breadth – another way**



#### This is NOT investment advice

## Weekly market direction ....

#### Prof. Guy Werner

Guy.werner@verizon.net

#### COLUMNS CD&E ARE FROM IBD AND ARE PROVIDED BY DAVE (IN THE NORTH) SMITH

			ANIL PARIKH'S TRIPLE SCREEN (52 W DAILY HIGH SHOWN IN GREEN 52 W LOW SHOWN IN RED)													
		DISTRIBUTIO	N DAYS		S&P	500 TRIPLE	SCREEN					NASDAG	TRIPLE SCRI	EEN		
	DATE	MARKET PULSE (IBD)	8&P 500	NASDAQ	8-20 EMA	MACD	RSI	CLOSING	Δ	%CHANGE	8-20 EMA	MACD	RSI	CLOSING	Δ	%CHANGE
SAT	03/02/24	FOR THE WEEK							49	0.96%					278	1.74%
SUN	03/03/24	YTD							368	7.72%					1263	8.41%
SUN	03/03/24	FOR THE MONTH							251	5.18%					927	6.11%
MON	03/04/24	CONFIRMED UP (60% -80%)	4	5	Р	Р	Р	5,130	-7	-0.14%	P €	Р	Р	16,207	-67	-0.41%
TUE	03/05/24	CONFIRMED UP (60% -80%)	4	6	Р	0	Р	5,078	-52	-1.01%	Р	0	Р	15,939	-268	-1.65%
WED	03/06/24	CONFIRMED UP (60% -80%)	4	6	Р	F	Р	5,104	26	0.51%	Р	F	Р	16,031	92	0.58%
THUR	03/07/24	CONFIRMED UP (60% -80%)	4	6	Р	0	Р	5,157	53	1.04%	Р	0	Р	16,273	242	1.51%
FRI	03/08/24	CONFIRMED UP (60% -80%)	5	4	Р	0	Р	5,123	-34	-0.66%	Р	F	Р	16,085	-188	-1.16%
SAT	03/09/24	FOR THE WEEK							-14	-0.27%					-189	-1.16%
SUN	03/10/24	YTD							354	7.42%					1074	7.15%
MON	03/11/24	CONFIRMED UP (60% -80%)	5	4	Р	F	Р	5,117	-6	-0.12%	Р	F	Р	16,019	-66	± -@- <u>#</u>
TUE	03/12/24	CONFIRMED UP (60% -80%)	5	4	Р	0	Р	5,175	58	1.13%	Р	F	Р	16,265	246	1.04/0

https://drive.google.com/drive/folders/0B6Qc\_gjpshXMclkzQ245d2R1eTQ?resourcekey=0-5pWglNqaJPJ12L2qYurMWg

## **US Treasuries - long duration**



## **US Dollar - weekly**



## Sixth Class - Mar. 13<sup>th</sup>

■ US Equities Market Review – 20 minutes

- ☐ ETFs deep dive Part 2
  - Performance metrics
  - Risk
  - ☐ ETFs for various asset classes

## **Types of Risk**

- Systematic Risk macroeconomic and other "system" events that influence the value of financial assets in general.
- Unsystematic Risk
  - Risk in the stock market.
    - How stocks will perform in the current financial environment.
    - Measured by volatility in the asset class
    - ☐ Correlation of the asset class to the economy and other asset classes.
  - □ Risks to specific sectors / industries within the stock market.
    - ☐ How the industry will perform in the current economy
    - Measured by volatility in a specific sector
  - □ Risk in a specific company within the sector/industry
    - ☐ How the company performs in the sector/industry
    - What happens to that company
    - Measured by Beta for that company within the market.

Why are you taking risk?

#### **Passive - Index ETFs**

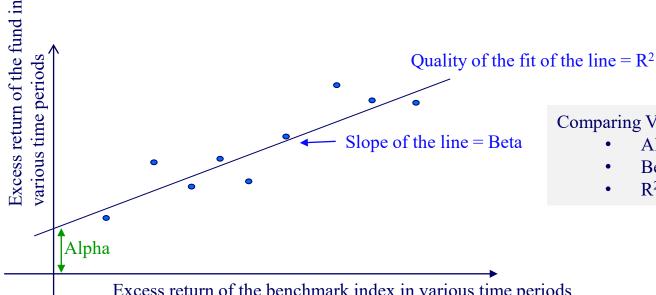
- □Hierarchy
  - Total market
    - Segments of markets
      - Sectors within markets
        - Companies within the sector

## **US Equity Markets**

- Total US stock market
  - □ VTI Vanguard Total US Stock Market ETF
- Segments by Size
  - Large Cap VV
    - ☐ S&P 500 VOO
    - NASDAQ 100 Invesco QQQ
  - Mid Cap VO
  - ☐ Small VB

### **Performance of a fund**

- Performance is measured relative to
  - an Index Benchmark.
  - Return in a low risk investment like a 10-year US Govt. treasury bond.



Comparing VOO or SPY to the S&P 500

- Alpha = zero
- Beta = 1
- $R^2 = 100\%$

Excess return of the benchmark index in various time periods Excess return = return on the benchmark – return on the 10 year US treasury

# **Metrics for ETF performance**

Metric	Definition / what it measures	Range	Good
Alpha	Excess return delivered relative to underlying index.	Zero is center	higher
Beta	Relative volatility of the fund compared to that of its benchmark index.	One is center	lower
R Squared	Percentage of a funds price movement that can be explained by changes in value of the underlying index	0 - 100	depends
Standard Deviation	Measure of the historical dispersion of a funds returns around its mean.		lower
Sharpe Ratio	Measure of excess return of a fund over the risk free return divided by its standard deviation. Estimates if a funds return comes from smart investing decisions or excess risk.		Higher
Expense Ratio	How much the manager charges to run the ETF		Lower
Liquidity	How much volume is traded every day (Bid - Ask spread)		High

#### What's in the ETF

- Portfolio
  - Companies or individual investments
  - Percent of holdings in that investment
  - Number of holdings depth or concentration
  - Turnover

## What do you want in an ETF?

- □ Reputable Sponsor
- Liquidity
- Delivers exposure to the asset class / index you want exposure to
  - High R-square to underlying asset class benchmark index
  - Low Beta
  - High Alpha
  - Low Standard Deviation
  - High Sharpe Ratio
- Low Expense Ratio and transaction fees.

## Morningstar® - ETF rating system

- ☐ Fund analyst, Proprietary Algorithm
- Criteria minimum 3 years data
- ☐ Star system 1 to 5 stars
  - Performance relative to other funds with similar asset classes, strategies.
  - How much risk is taken relative to others and benchmarks. Less is better.
  - 3 is average
    - 1 or 2 have underperformed
    - □ 4 or 5 have done the best in the comparison group.
- Medalist ratings Negative, Neutral, Bronze, Silver and Gold
  - Predicted future performance of strategy based on Net Alpha
  - □ Evaluates 3 factors on a 5 point scale high, above avg., avg., below avg., low
    - People
- Performance
- Process
- Fees relative to excess return delivered
- Parent
- Higher bar for active strategies must beat benchmark with performance justifying risk and fees

# **Morning Star ETF screens**

- ☐ Gold Medal and 3 to 5 star rating
  - □ 219 funds passed the screen !!
- □ Ran screen or Core Gold and Silver ETFs
  - □ 29 Gold ETFs and 75 Silver ETFs pass the screen
- Results attached as a separate Excel file on the class website.

## **US Equity Markets – Style**

- □ Total US stock market
  - ☐ Style Growth vs. Value

	Growth	Blend	Value
Large	VOOG	VOO	VOOV
Mid	VOT	VO	VOE
Small	VBK	VB	VBR

- Style Dividend
  - ☐ High Dividend VYM
  - ☐ Growing Dividend VIG

## **S&P 500 – Sector Weights**



### Sector Weights, Price Changes, Earnings Growth, P/Es, Yields and PEGs 3/8/24

Weights & % Price Changes		S&P 500	
S&P Sectors	% of 500	MTD	YTD
Communication Services	8.7	(0.1)	10.6
Consumer Discretionary	10.3	(2.2)	2.4
Consumer Staples	6.0	0.9	4.4
Energy	3.7	2.4	4.4
Financials	13.0	0.6	7.6
Health Care	12.6	1.0	7.1
Industrials	8.8	1.0	7.0
Information Technology	29.9	0.7	11.1
Materials	2.3	2.0	4.1
Real Estate	2.4	2.6	0.0
Utilities	2.2	2.5	(0.2)
S&P Indexes	100.0	0.5	7.4
S&P/Citigroup Growth	54.7	(0.1)	10.2
S&P/Citigroup Value	45.3	1.3	4.2

SSD MidCap 400										
S&P MidCap 400										
% of 400	MTD	YTD								
1.4	(0.8)	(8.6)								
15.7	0.8	6.0								
4.7	1.5	13.6								
5.0	2.2	6.1								
15.7	1.3	3.7								
7.6	2.1	5.7								
21.3	1.6	7.1								
11.3	6.2	19.0								
6.9	2.2	1.3								
7.3	2.0	(4.3)								
3.2	5.1	6.9								
100.0	2.1	6.1								
53.7	2.3	11.7								
46.3	1.9	0.4								

1		
S&P	SmallCap	600
% of 600	MTD	YTD
2.7	(0.2)	(3.6)
15.0	(2.0)	0.7
3.5	(2.8)	(5.0)
4.6	1.7	1.2
18.0	0.9	(4.2)
10.7	1.8	0.7
18.3	0.7	5.0
12.1	1.4	(1.9)
5.8	1.7	2.9
7.4	1.4	(4.0)
1.9	0.5	(8.4)
100.0	0.5	(0.5)
51.1	0.6	2.0
48.9	0.5	(3.0)

## **US Equity Markets – Sector**

#### Sector Performance by Business Cycle Phase

The table below shows how sectors have tended to perform in each stage of the business cycle. For more information on sector performance patterns, read The Business Cycle Approach to Sector Investing (PDF).

This is not investment advice

	XLF
39% is AMZN	XLRE
and TSLA ——	— XLY
40% is AAPL ——	XLK
and MSFT	XLI
	XLB
	XLP
	XLV
	XLE
	- XLC
41% is Meta and	XLU
Google	

<u>Sector</u>	<u>Early</u>	<u>Mid</u>	<u>Late</u>	Recession
Financials	+			
Real Estate	++			-
Consumer Discretionary	++	_	/	
Info. Tech	+	+	S <del>-1-</del> 3	
Industrials	++			
Materials	+		++	
Consumer Staples			++	++
Health Care	<del></del>		++	++
Energy			++	
Communication Services		+		-
Utilities			+	++

Unshaded (white) portions above suggest no clear pattern of over- or underperformance vs. broader U.S. equity market. Double +/- signs indicate that the sector is showing a consistent signal across all three metrics: full-phase average performance, median monthly difference, and cycle hit rate. A single +/- indicates a mixed or less consistent signal. Source: Fidelity Investments (AART).

This is not investment advice

## **Equity Markets - Industry**

- Specific Industry of interest
  - Based on market direction etc.
  - ☐ Fund manager / team make choices
- Examples
  - Solar Energy TAN
  - Internet Security HACK, BUG -> similar top holdings
  - Lithium & Batteries LIT, BATT ->6% weight on TSLA
  - ☐ Biotech IBB, XBI
  - Medical Devices IHI
  - Airlines JETS

#### **Active ETFs**

- Strategy / Style
- □ Active Fund Manager/team

## **Equity Markets - Active**

- Manager / Team chooses portfolio to achieve objective
- Equity Premium Income / growth
  - ☐ JEPI (covered calls Equity Linked Notes), monthly distributions
- Multiple strategies
  - Low Beta
    - LVHD, EEMV
  - Active Beta
    - GSLC, GSIE
  - Momentum
    - ☐ MTUM, IMTM
  - Covered Calls
    - DIVO

## **Equity Markets – Exotic Strategy**

- Multiple leveraged funds
  - Complex ETF
  - Low AUM, High Fees
  - Very short term focus One Day!
  - Be very careful
- S&P 500 Double Leverage SPUU or SOO
  - QQQ triple TQQQ and short SQQQ
- □ Direxion single stock ETFs TSLA daily bear TSLS

#### **US Bond Market**

- Type of Bond
  - ☐ Federal Government
  - Municipal Governments
  - Corporate Bonds
    - Investment Grade
    - High Yield
- Term
  - Long Term
  - Intermediate Term
  - Short term

#### **US Bond Market**

- □ Total Bond Market BND
- Total Corporate Bonds VTC
- ☐ High Yield Bonds HYG (iShares)
- Total Tax Exempt VTEB

	Short	Intermediate	Long Term
Treasuries	VGSH	VGIT	VGLT
Corporate	VCSH	VCIT	VCLT
Total Bond Mkt.	BSV	BIV	BLV

#### **International Markets**

- Equities
  - □ Total International Markets VXUS, IXUS, VEU
  - Emerging Markets VWO
  - Developed Markets VEA
- Bonds
  - □ Total International Bonds BNDX (Hedged)

## **Precious Metals ETFs**

Investment Focus	Example ETFs
Individual Precious Metals	
Gold	IAU, GLD, SGOL
Gold Miners	GDX, RING, GOEX
Silver	SLV, SIVR,
Silver Miners	SIL, SLVP
Platinum	PPLT, PLTM
Palldium	PALL
Precious Metal baskets	
Palladium + Platinum	SPPP
Gold + Silver + Platinum + Palladium	GLTR



#### Asset class returns

**GTM** U.S. 60

2009	-2023																
Ann.	Vol.	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Large Cap	Sm all Cap	Fixed Income	EM Equity	REITs	REITs	R⊟Ts	Small Cap	REITs	REITs	Sm all Cap	EM Equity	Cash	Large Cap	Sm all Cap	R⊟Ts	Com dty.	Large Cap
14.0%	21.9%	5.2%	79.0%	27.9%	8.3%	19.7%	38.8%	28.0%	2.8%	21.3%	37.8%	1.8%	31.5%	20.0%	41.3%	16.1%	26.3%
Sm all Cap	REITs	Cash	High Yield	Sm all Cap	Fixed Income	High Yield	Large Cap	Large Cap	Large Cap	High Yield	DM Equity	Fixe d Income	REITs	EM Equity	Large Cap	Cash	DM Equity
11.3%	21.2%	1.8%	59.4%	26.9%	7.8%	19.6%	32.4%	13.7%	1.4%	14.3%	25.6%	0.0%	28.7%	18.7%	28.7%	1.5%	18.9%
REITs	EM Equity	Asset All <b>⊜</b> c.	DM Equity	EM Equity	High Yield	EM Equity	DM Equity	Fixe d Income	Fixed Income	Large Cap	Large Cap	REITs	Sm all Cap	Large Cap	Comdty.	High Yield	Sm all Cap
10.9%	20.3%	-25.4%	32.5%	19.2%	3.1%	18.6%	23.3%	6.0%	0.5%	12.0%	21.8%	-4.0%	25.5%	18.4%	27.1%	-12.7%	16.9%
High Yield	DM Equity	High Yield	REITs	Com dty.	Large Cap	DM Equity	Asset	Asset	Cash	Com dty.	Small Cap	High Yield	DM Equity	Asset	Small Cap	Fixe d Incom e	Asset Allec.
8.6%	18.4%	-26.9%	28.0%	16.8%	2.1%	17.9%	14.9%	5.2%	0.0%	11.8%	14.6%	-4.1%	22.7%	10.6%	14.8%	-13.0%	14.1%
Asset Alloc.	Com dty.	Small Cap	Sm all Cap	Large Cap	Cash	Small Cap	High Yield	Small \	DM Equity	EM Equity	Asset Al <b>®</b> ç.	Large Cap	Asset AUSc.	DM Equity	Asset Al <del>loc.</del>	Asset	High Yield
8.1%	16.6%	-33.8%	27.2%	15.1%	0.1%	16.3%	7.3%	4.9%	-0.4%	11.6%	14.6%	-4.4%	19.5%	8.3%	13.5%	-13.9%	14.0%
DM Equity	Large Cap	Comdty.	Large Cap	High Yield	Asset	Large Cap	REITs	Cash	Asset Allec.	REITs	High Yield	Asset Alloc.	EM Equity	Fixe d Income	DM Equity	DM Equity	REI Ts
7.4%	16.1%	-35.6%	26.5%	14.8%	<b>/-0.7%</b>	16.0%	2.9%	0.0%	-2.0%	8.6%	10.4%	-5.8%	18.9%	7.5%	11.8%	-14.0%	11.4%
EM Equity	High Yield	Large Cap	Asset	Asset	Sm all Cap	Asset Alsoc.	Cash	High Yield	High Yield	Asset Allec.	R⊟Ts	Small Cap	High Yield	High Yield	High Yield	Large Cap	EM Equity
6.9%	11.5%	-37.0%	25.0%	13.3%	-4.2%	12.2%	0.0%	0.0%	-2.7%	8.3%	8.7%	-11.0%	12.6%	7.0%	1.0%	-18.1%	10.3%
Fixe d Incom e	Asset Alloc.	REITs	Com dty.	DM Equity	DM Equity	Fixed Income	Fixe d Income	EM Equity	Sm all Cap	Fixed Income	Fixed Income	Comdty.	Fixe d Incom e	Cash	Cash	EM Equity	Fixed Income
2.7%	11.5%	-37.7%	18.9%	8.2%	-11.7%	4.2%	-2.0%	-1.8%	-4.4%	2.6%	3.5%	-11.2%	8.7%	0.5%	0.0%	-19.7%	5.5%
Cash	Fixed Income	DM Equity	Fixed Income	Fixed Income	Com dty.	Cash	EM Equity	DM Equity	EM Equity	DM Equity	Comdty.	DM Equity	Com dty.	Com dty.	Fixed Income	Sm all Cap	Cash
0.8%	4.5%	-43.1%	5.9%	6.5%	-13.3%	0.1%	-2.3%	-4.5%	-14.6%	1.5%	1.7%	-13.4%	7.7%	-3.1%	-1.5%	-20.4%	5.1%
Com dty.	Cash	EM	Cash	Cash	EM Equity	Comdty.	Comdty.	Com dty.	Com dty.	Cash	Cash	EM Equity	Cash	R⊟Ts	EM Equity	REITs	Com dty.
-0.2%	0.7%	Equity -53.2%	0.1%	0.1%	-18.2%	-1.1%	-9.5%	-17.0%	-24.7%	0.3%	0.8%	-14.2%	2.2%	-5.1%	-2.2%	-24.9%	-7.9%

Source: Bloomberg, FactSet, MSCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management.
Large cap: \$&P 500, Small cap: Russell 2000, EM Equity: MSCI EME, DM Equity: MSCI EAFE, Comdty: Bloomberg Commodity Index, High Yield: Bloomberg Global HY
Index, Fixed Income: Bloomberg US Aggregate, REITs: NAREIT Equity REIT Index, Cash: Bloomberg 1-3m Treasury. The "Asset Allocation" portfolio assumes the following
weights: 25% in the S&P 500, 10% in the Russell 2000, 15% in the MSCI EAFE, 5% in the MSCI EME, 25% in the Bloomberg US Aggregate, 5% in the Bloomberg 1-3m Treasury, 5% in the Bloomberg Global High Yield Index, 5% in the Bloomberg Commodity Index and 5% in the NAREIT Equity REIT Index. Balanced portfolio assumes annual rebalancing. Annualized (Ann.) return and volatility (Vol.) represents period from 12/31/2007 to 12/31/2022. Please see disclosure page at end for index definitions. All data represents total return for stated period. The "Asset Allocation" portfolio is for illustrative purposes only. Past performance is not indicative of future

Guide to the Markets - U.S. Data are as of December 31, 2023.

J.P.Morgan **ASSET MANAGEMENT** 

13 March 2024

#### ETFs that do the asset allocation

- Balanced Funds
  - □ iShares aggressive AOA 5 Star, Gold
  - □ iShares moderate AOM 3 Star, Gold

□ Target Dated funds

#### **Sources of information for ETFs**

- Morningstar
  - Paid subscription gives access to more content including medalist funds etc.
  - □ 2 part rating system Stars for prior performance; Medals for future outlook
- AAII ETF database
  - Annual list of ETFs and performance (requires membership)
- Your Brokers website
  - ETF prospectus
  - ETF selection tools
  - ETF comparison tools
  - CFRA or other analyst reports on ETFs
- https://etfdb.com/
  - ETF database website a lot of free information
  - Paid subscription provides more

#### **Seventh Class - March 20th**

- External speaker
  - □ Prof. Rich Jakotowicz, Univ. of Delaware
  - ☐ Investing in the current environment
- US Equities Market Review 20 minutes

#### **Thanks!!**

- □ Happy Investing !!
- My EMail
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- □ Class website
  - □ http://udel.edu/~diyinvst