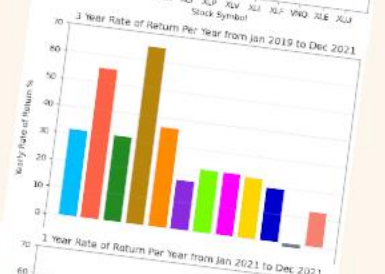
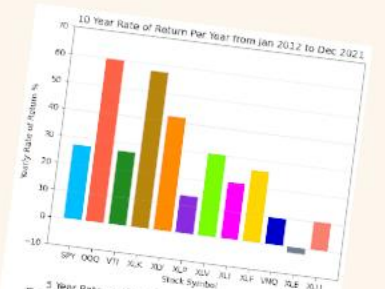
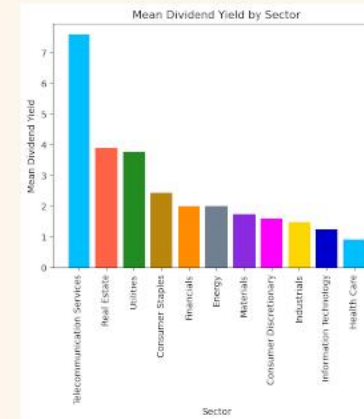
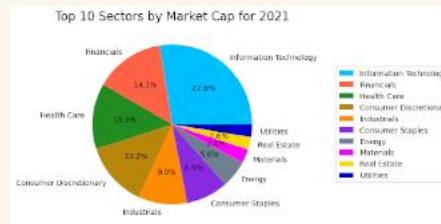
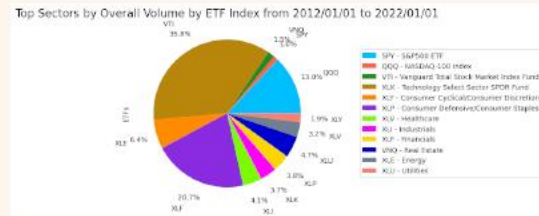


EDA- Stock Market Over 10 Years

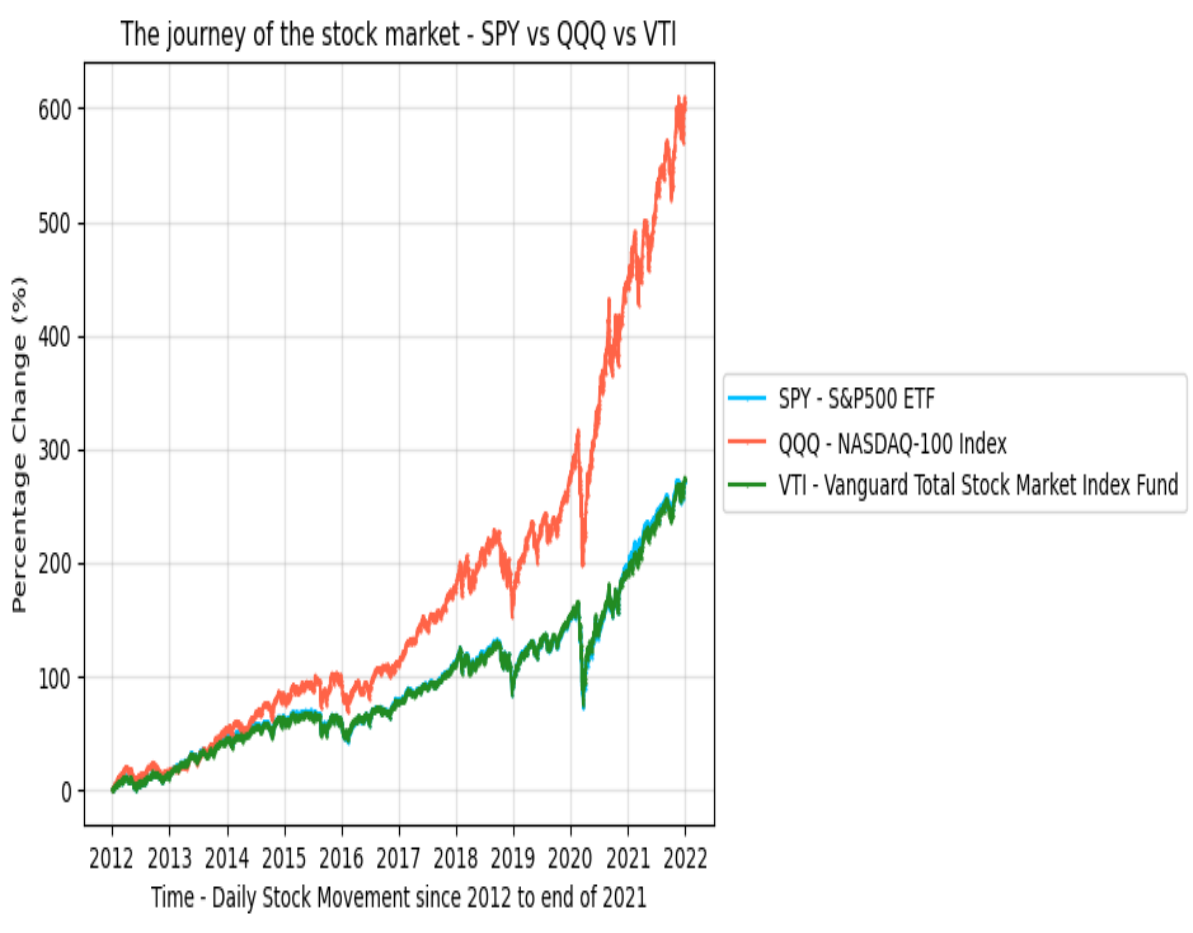
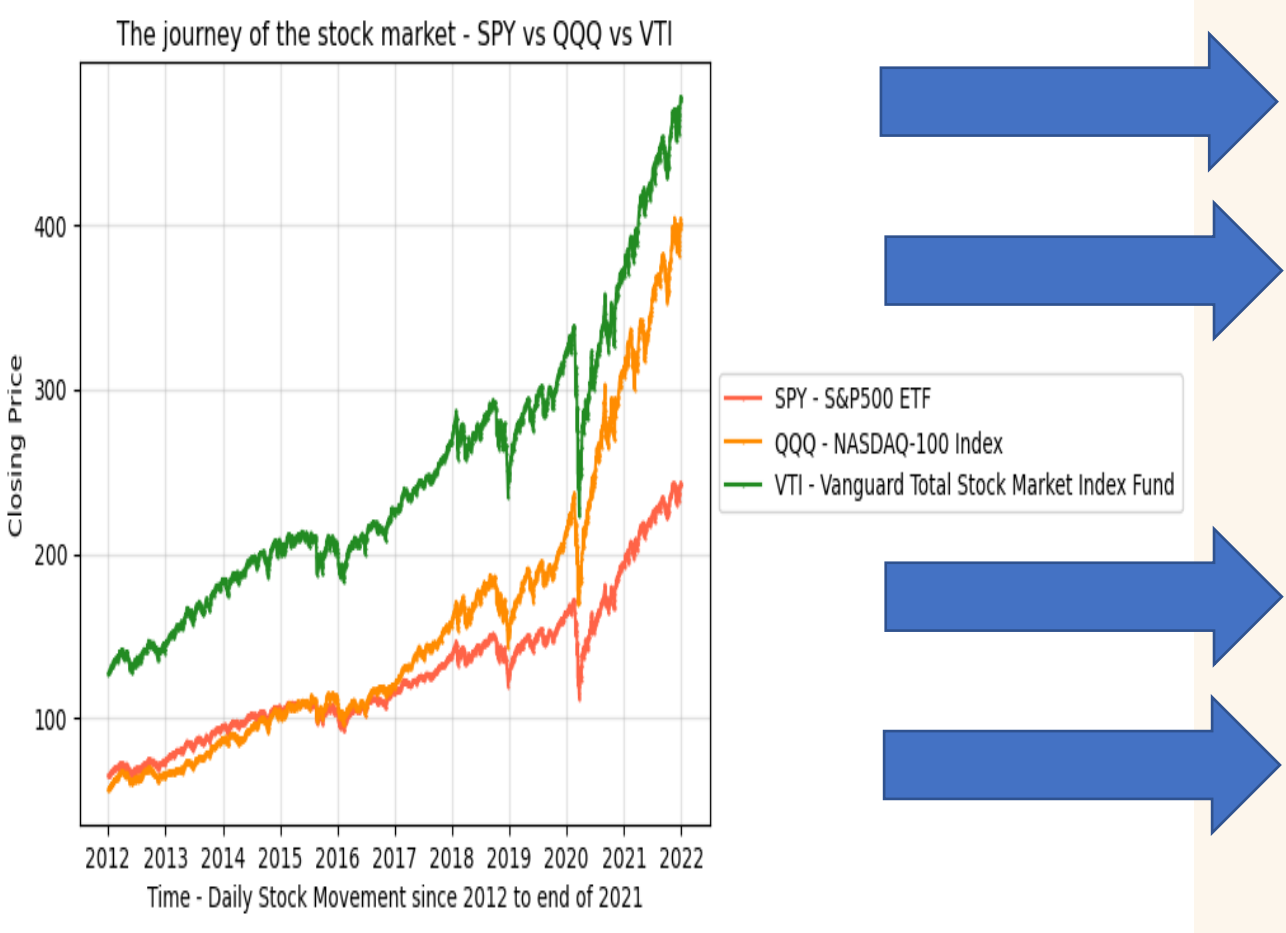
Exploring which sectors did best!



Stock Market performance over a 10 year period: SPY vs QQQ vs VTI.

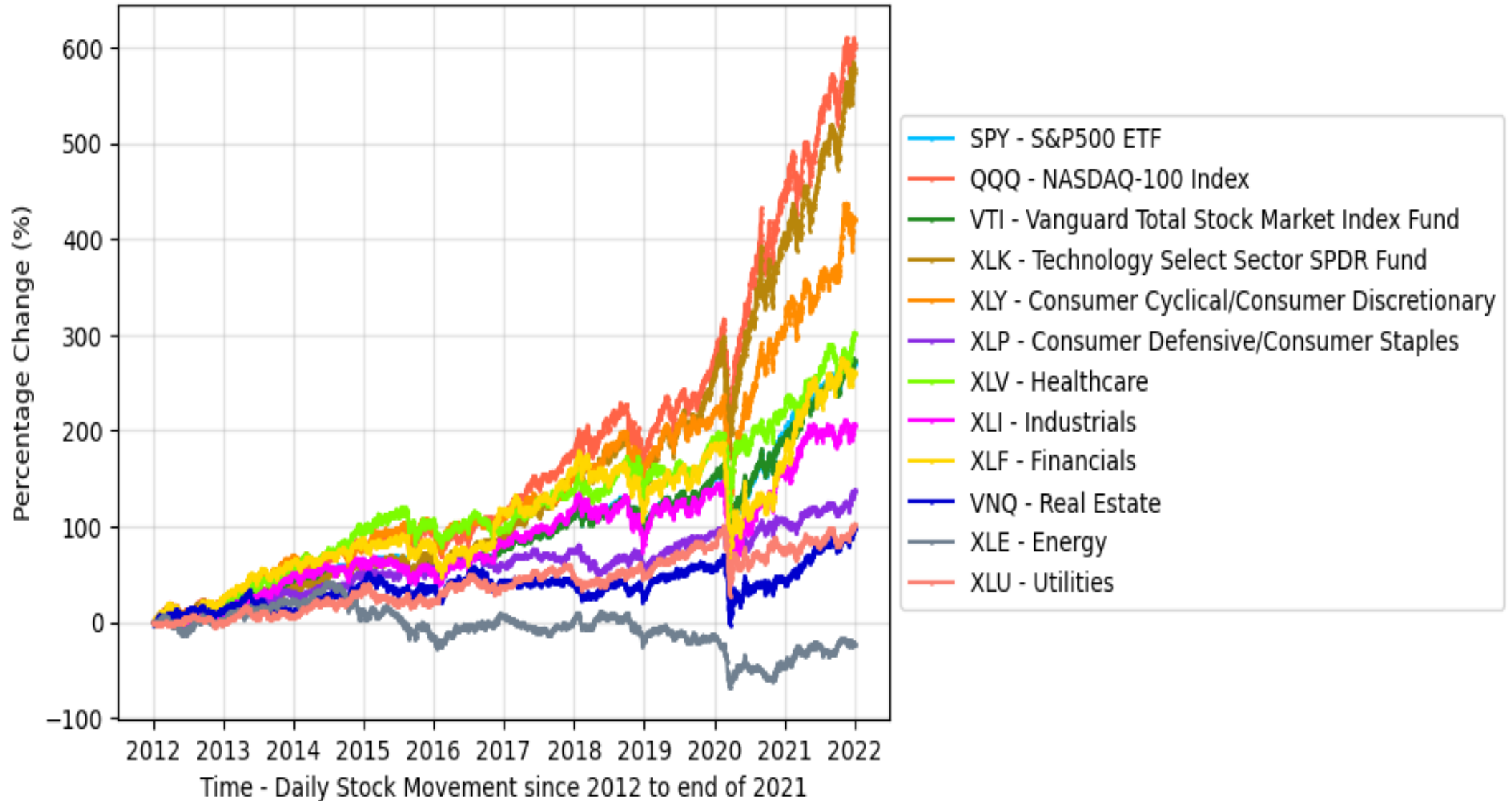
3 Most Popular ETFs representing the US Stock Market:

After Standardization:



Then we added in the other Indexes represented by ETFs and their performance over the last 10 years:

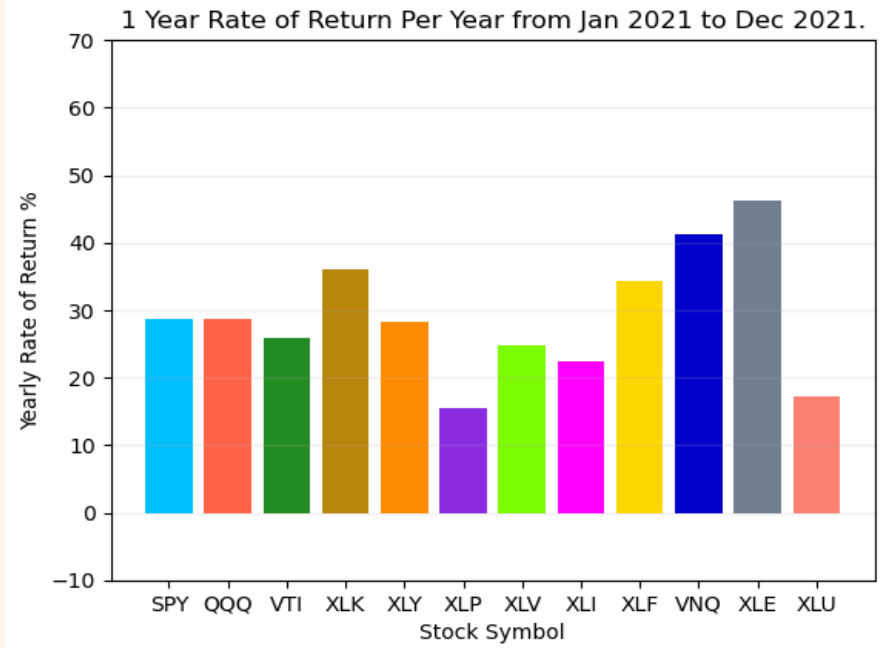
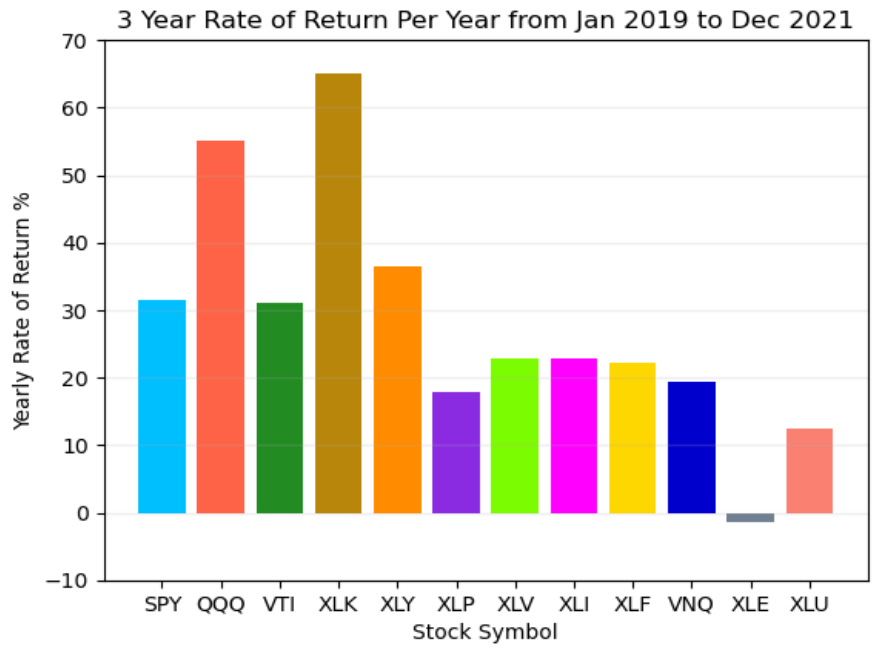
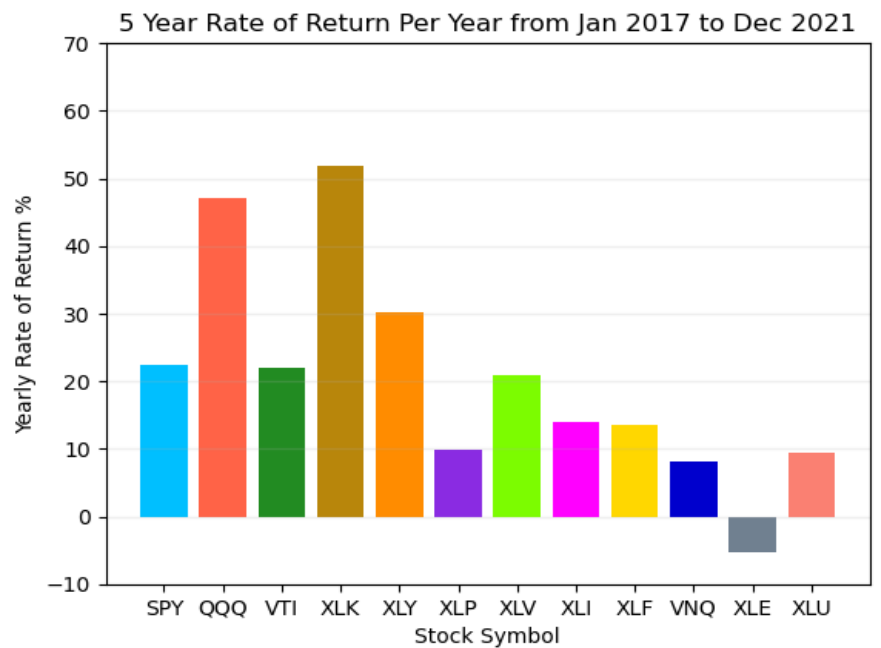
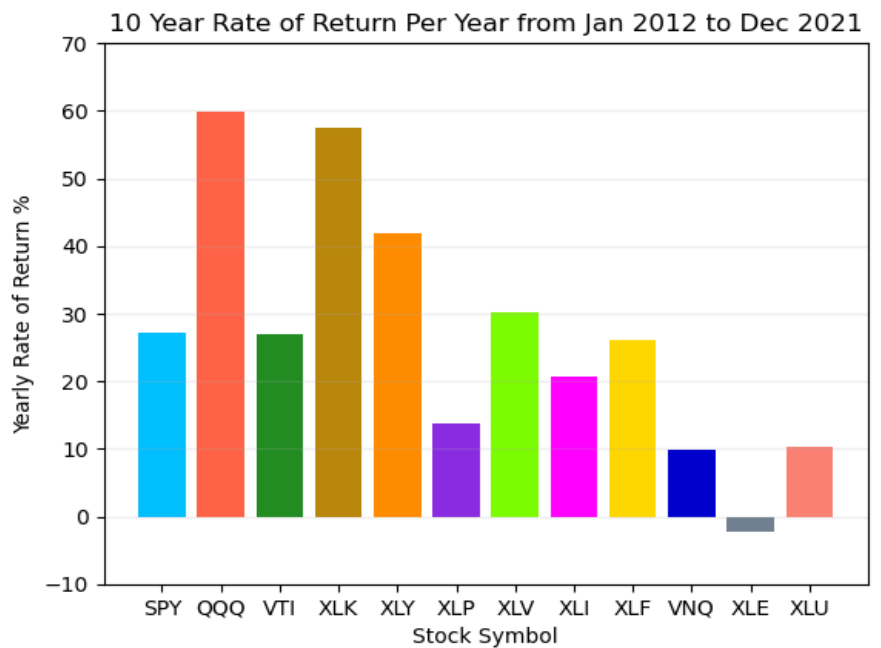
The journey of the stock market - SPY vs QQQ vs VTI vs XLK vs XLY vs XLP vs XLV vs XLI vs XLF vs VNQ vs XLE vs XLU



We then created a Dataframe to show the Rate of Return for all of our Stock Indexes over 10, 5, 3, 1 Years:

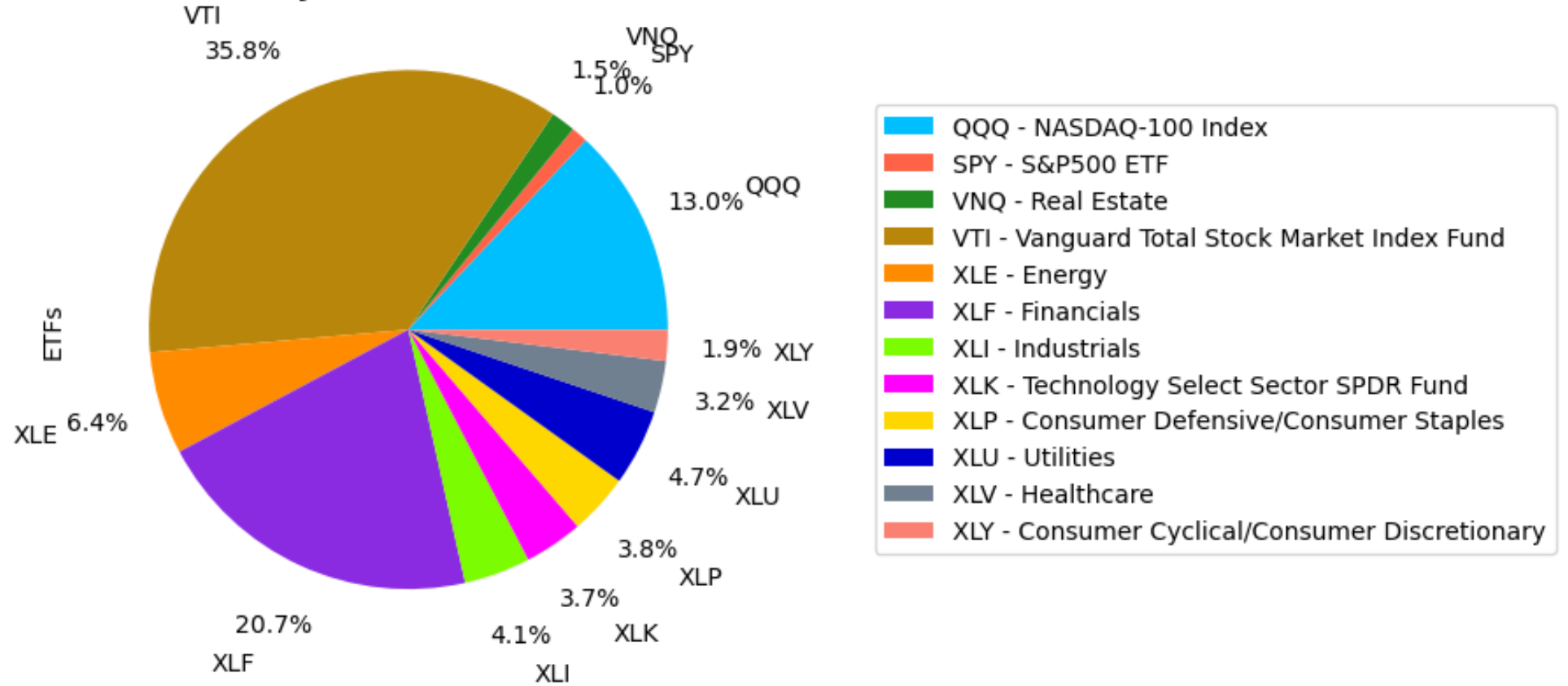
	10 Year Yearly Rate of Return	5 Year Yearly Rate of Return	3 Year Yearly Rate of Return	1 Year Yearly Rate of Return
SPY	27.251764	22.496309	31.496114	28.788736
QQQ	59.920913	47.159013	55.183996	28.625007
VTI	27.024997	21.873049	31.169354	25.835205
XLK	57.365362	51.906531	65.081789	35.942137
XLY	41.954259	30.230958	36.489073	28.239873
XLP	13.755392	9.824019	17.878729	15.572541
XLV	30.093911	20.873221	22.930393	24.736612
XLI	20.678455	14.01157	22.855927	22.451097
XLF	26.034896	13.591397	22.103918	34.28473
VNQ	9.834159	8.113414	19.307561	41.182919
XLE	-2.1886	-5.262878	-1.381693	46.206537

We then graphed those results for 10, 5, 3 and 1 year Rate of Return for all of our Stock Indexes using a Bar Chart:



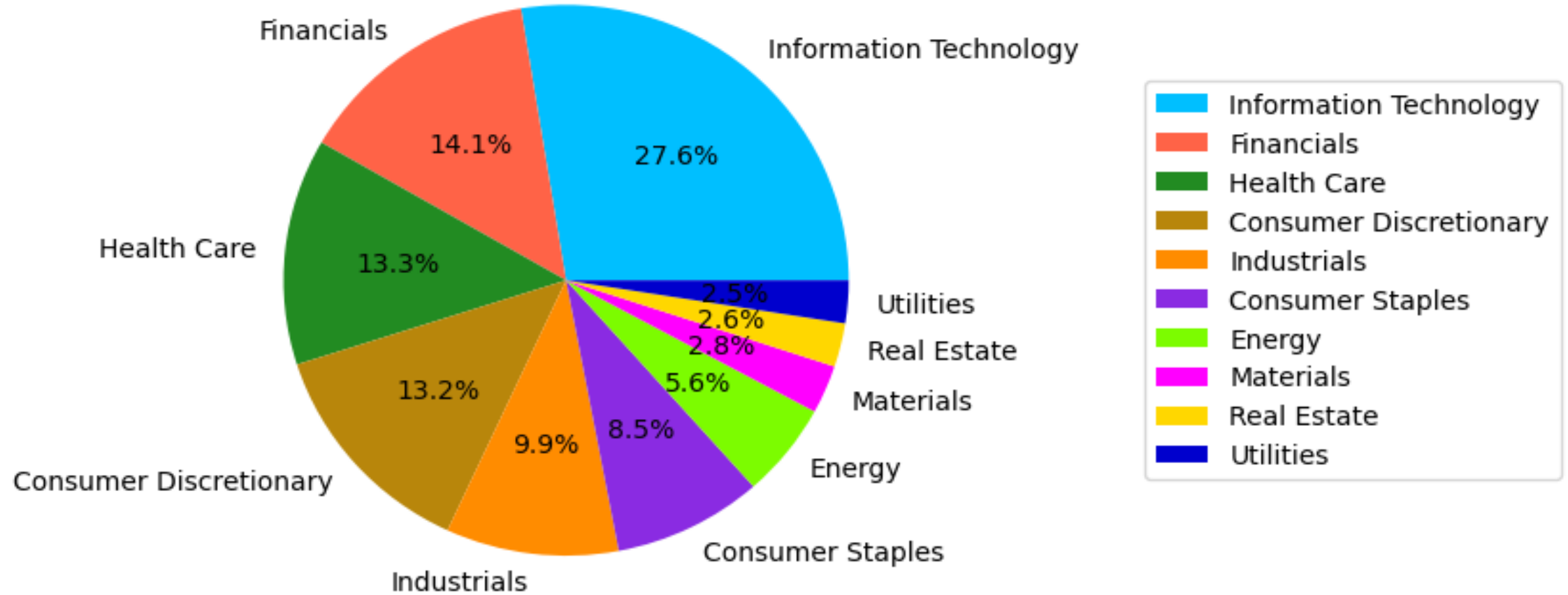
Top 10 Industries by Volume:

Top Sectors by Overall Volume by ETF Index from 2012/01/01 to 2022/01/01

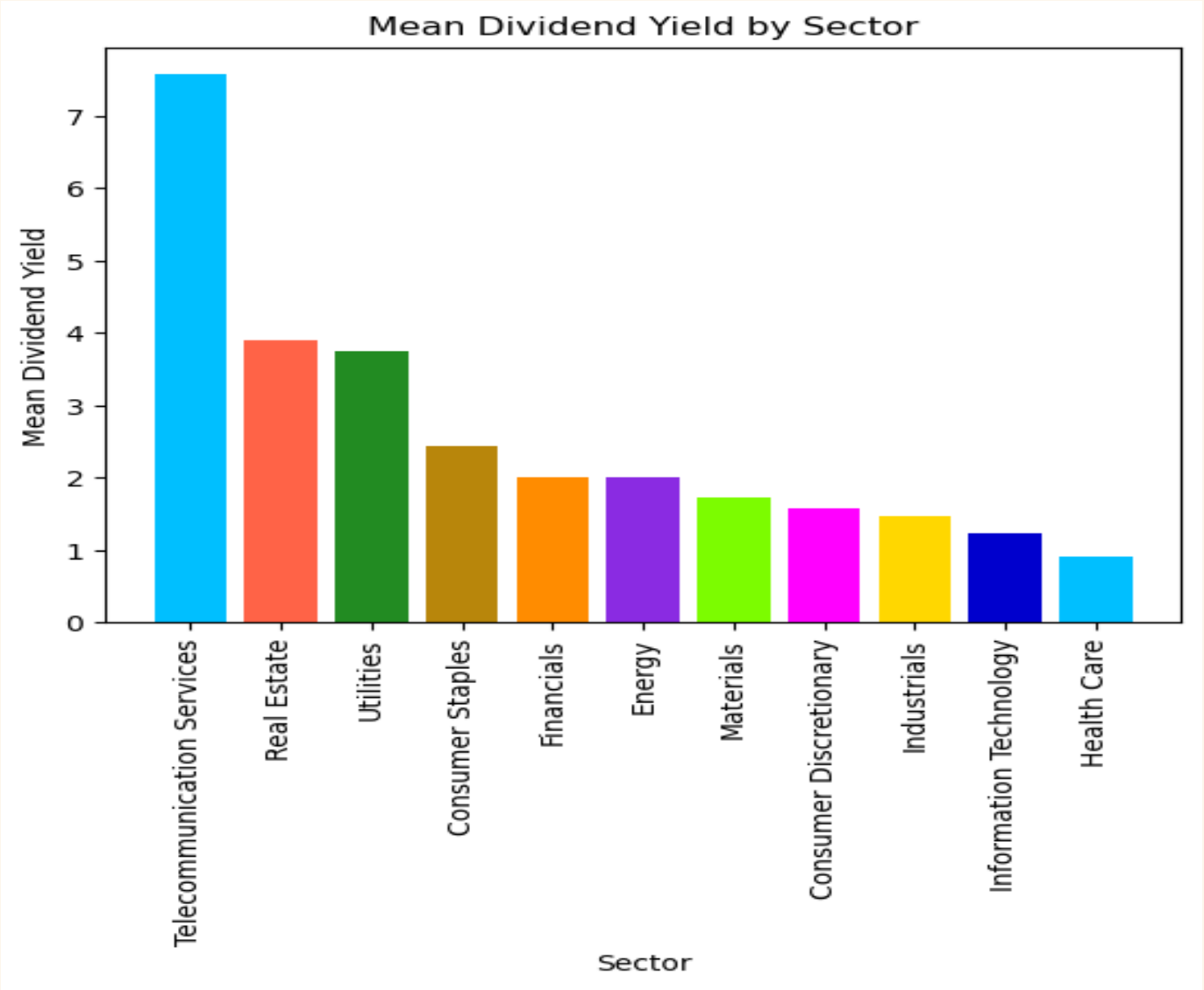


Top 10 Sectors by Market Cap:

Top 10 Sectors by Market Cap



Mean Dividend Yield by Sector:



Project Learnings and Questions?