Giant Losers

"An Exploratory Data Analysis of the Impact to Top Ranked Companies in the US during the 2008 and 2020 Market Crash."

"The US has suffered 2 major financial crises in the past 23 years."





	Market value	Profits	Assets	Sales
Year				
2008	21.151711	1.141779	51.916611	17.105268
2009	12.657122	0.300619	49.997905	18.271439
2010	20.036717	0.840619	52.368649	16.767073
2011	23.521528	1.410107	62.253138	18.760463
2012	25.576864	1.648375	65.348566	20.739771
2013	27.384715	1.613076	66.004972	20.701105
2014	32.695636	2.067636	66.965818	20.779636
2015	35.210011	1.817571	68.490333	21.221367
2016	34.396000	1.556317	68.941546	20.211852
2017	38.202078	1.640453	71.467413	20.396835
2018	44.338933	1.963946	75.161648	22.363519
2019	45.635639	2.147210	76.307032	23.137093
2020	48.119062	2.301660	88.880664	25.327363
2021	77.853987	2.078040	105.611233	26.763260

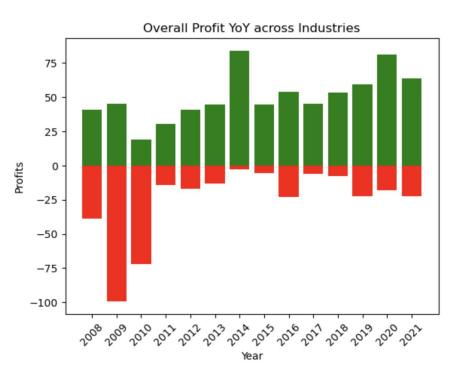
Profits

Sales

Accete

Market Value

Profitability
amongst the Market
was at a all time low
in 2009 & 2010.



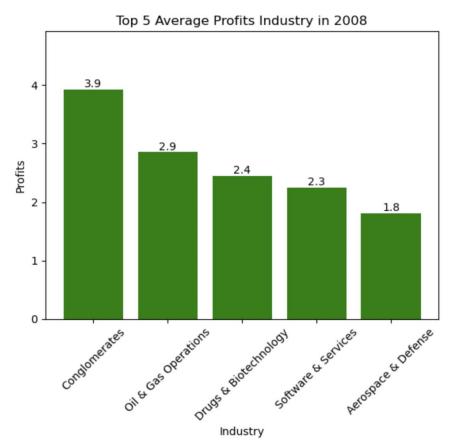
Leaving a majority of Companies in the Market with a deficit for those respective years.

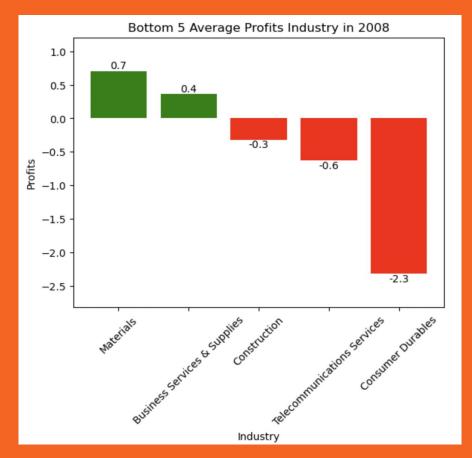
Average Market Value vs Assets YOY



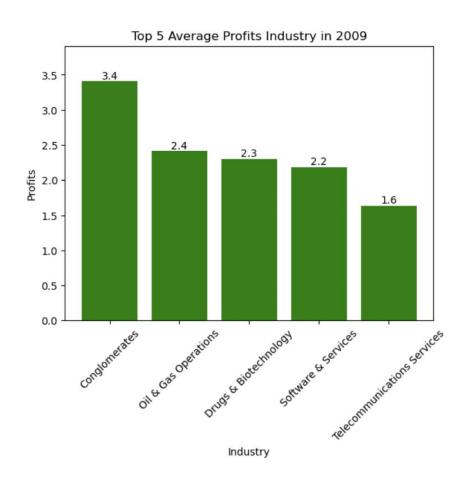
Strong positive correlation between Market Value and Assets.

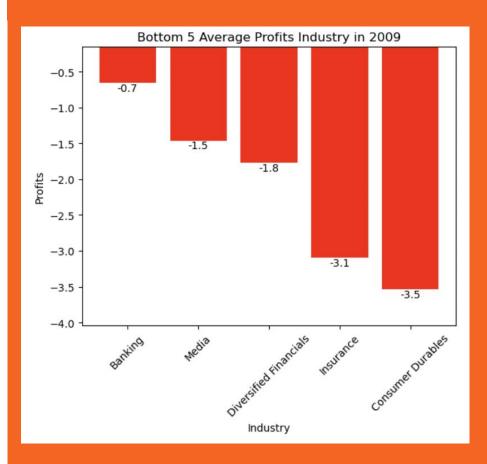
2008 Profits





2009 Profits



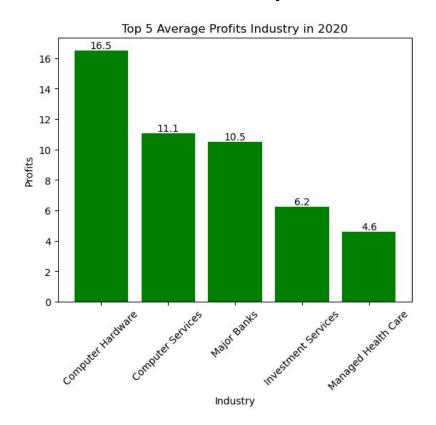


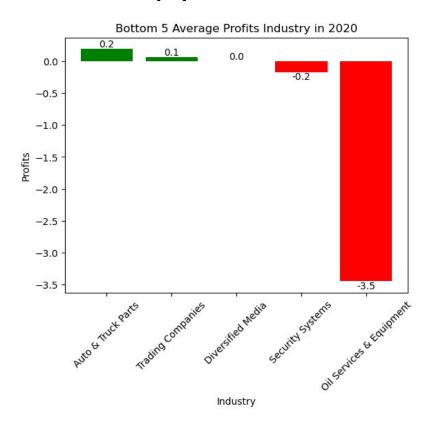
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Profitability amongst the Market was at its highest in 2020.

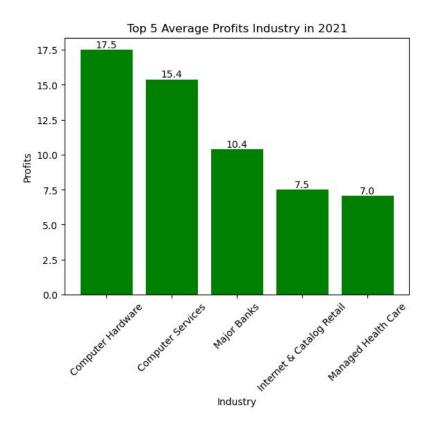
Period of 2009-2020 is the longest bull market in history.

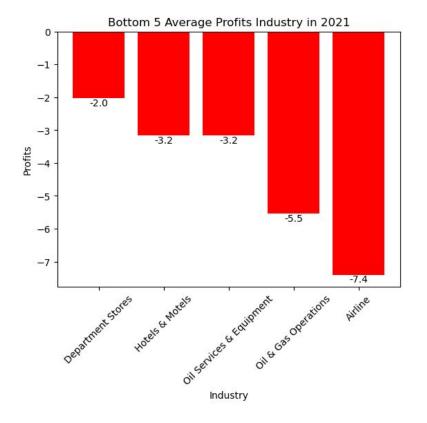
In 2020, the most profitable industry in the USA was the computer hardware. Meanwhile, the least profitable one was oil services & equipment.





In 2021, the 5 most profitable industry in the USA earned more than last years. But, the 5 least profitable industries had a worse performance than last year.

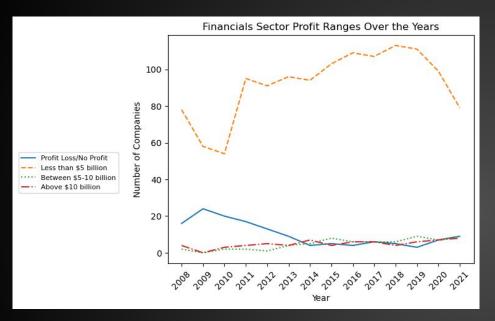


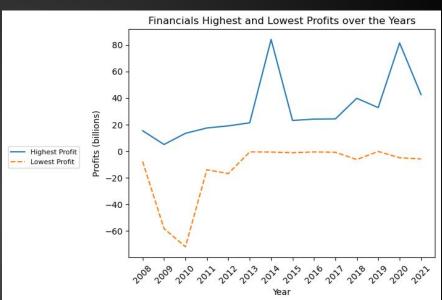


To Evaluate Market Trends, the population was divided into samples:

- -Financial
- -Technology
- -Petroleum

Financial Sector





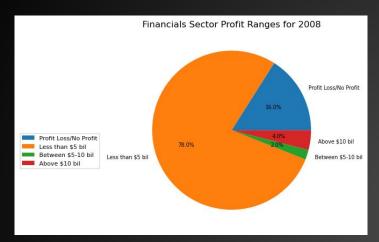
Housing Crisis

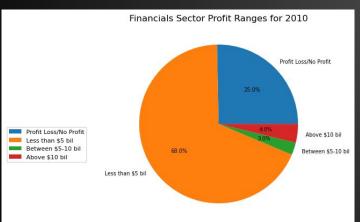
- Highest Number of Unprofitable companies between 2008-2010.
- Highest and Lowest Profit dropped in 2009 showing an overall decrease in profit

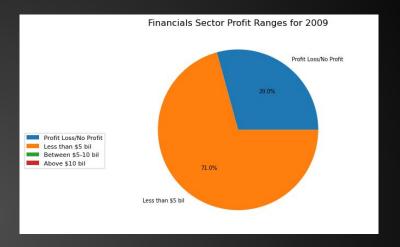
Covid 19 Pandemic

Highest Profit jumped in 2020 while Lowest Profit was steady

Financial Sector (2008 - 2010)

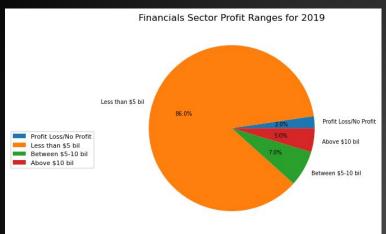


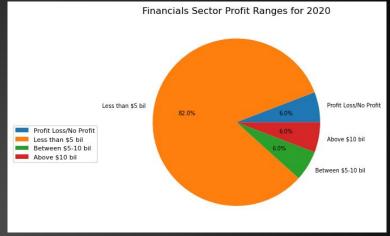


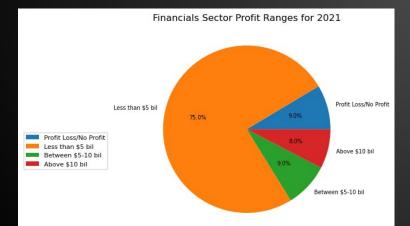


- 16% in 2008
- 29% in 2009 and 0% made more than \$5 billion
- 25% in 2010 with a slight recovery in other ranges

Financial Sector (2019 - 2021)

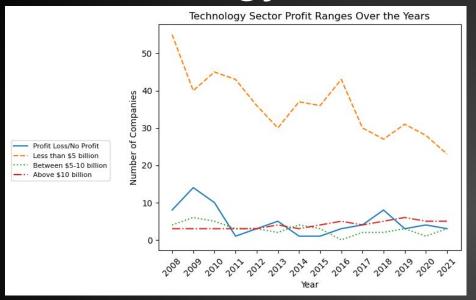


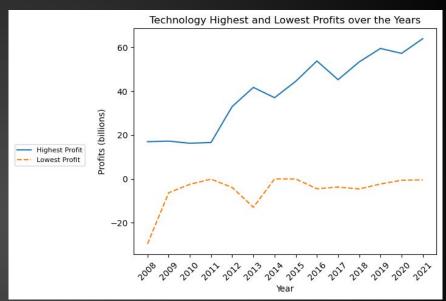




- 2% in 2019
- 9% in 2020 and an increase in companies that made more than \$5 billion
- 6% in 2021

Technology Sector





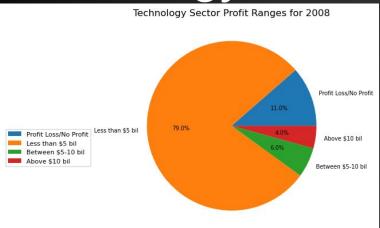
2008 Housing Crisis

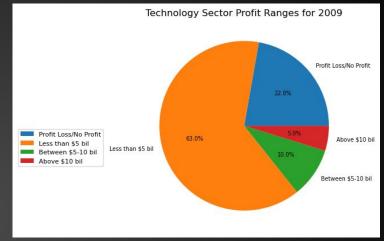
- Highest Number of Unprofitable companies between 2008-2010
- Lowest profit decreased in 2009 while Highest Profit was steady

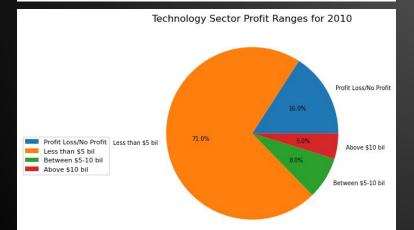
Covid19 Pandemic

Highest Profit increased in 2020 while Lowest Profit was steady

Technology Sector (2008 - 2010)

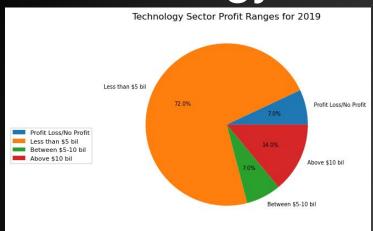


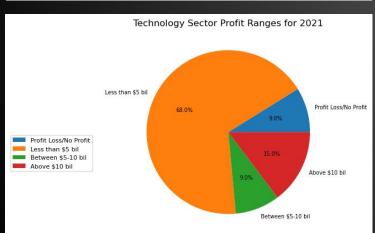


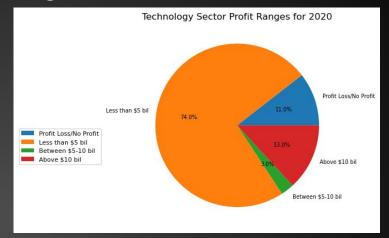


- 11% in 2019
- 22% in 2020
- 16% in 2021

Technology Sector (2019 - 2021)

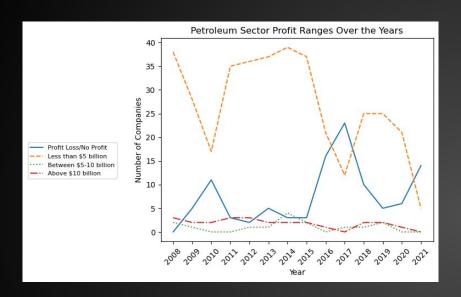


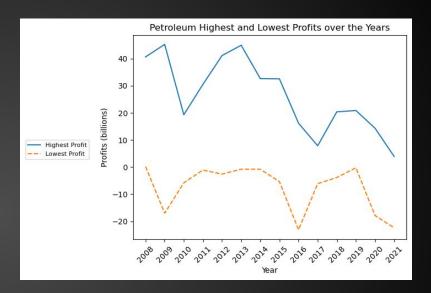




- 7% in 2019
- 11% in 2020
- 9% in 2021 and more companies that made over \$5 billion

Petroleum Sector





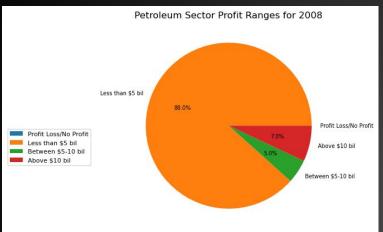
2008 Housing Crisis

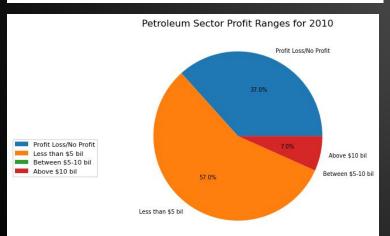
- The Petroleum sector had a volatile performance during the 2008 crisis. It saw its Peak in 2009.
- Highest Profit increased and Lowest Profit increased in 2009

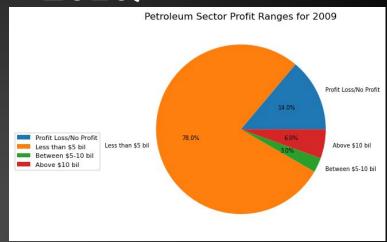
Covid19 Pandemic

Highest Profit decreased and Lowest Profit increased in 2020

– Petroleum Sector (2008 - 2010)

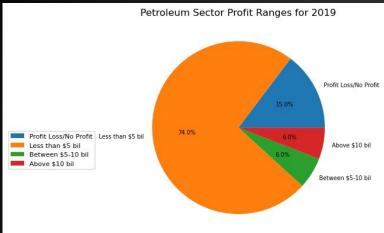


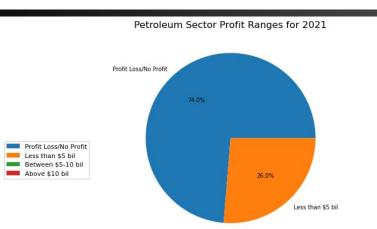


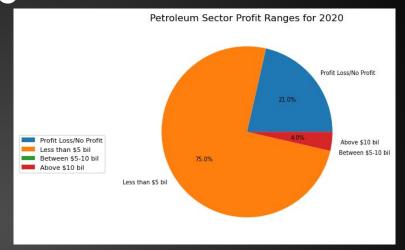


- 0% in 2008
- 14% in 2009
- 37% in 2010

_Petroleum Sector (2019 - 2021)



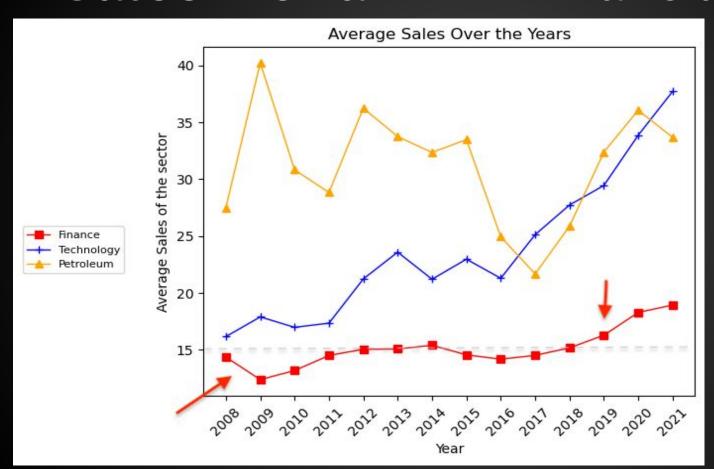




- 15% in 2019
- 21% in 2020
- 74% in 2021 and 0% made over \$5 billion

-Sales Trend

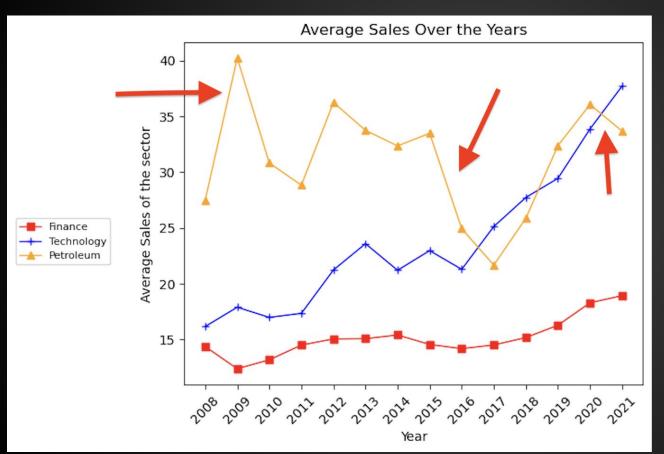
Financial Sector



The 2008
Housing Crisis
Impact reflected
in 2009

Recovery
Long and Slow

Petroleum Sector





Fight inflation - sales increased in 2008-2009

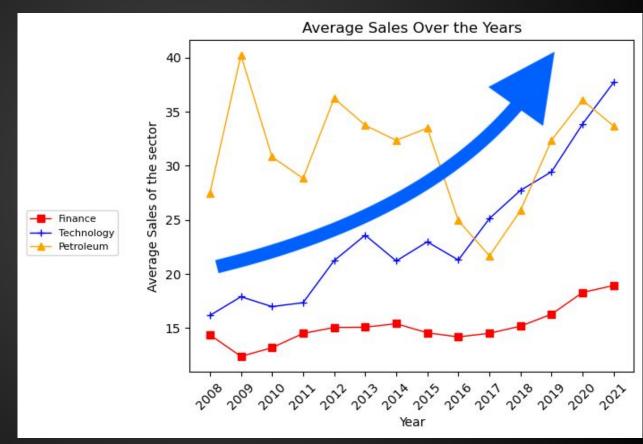
Sales drop - Supply Glut in 2014-2016

Sales drop - COVID19 pandemic

Technology Sector

- Al and Big Data Took Off
- Mobile upgraded from 3G to 5G network





Perspective.

Project Overview

Obstacles:

- Sample is too small (but did consider most influential Project Overview companies)
- Speculative indicators aren't the best resources to analyze future market trends

Next Steps

- Analyze impact on other countries
- Analyze if industries trends varied from country to country
- Use other indicators to examine the market

