



# STOCK PRICE ANALYSIS

GROUP - 1

Stock market analysis is the evaluation of publicly traded companies to make informed investment decisions by examining financial statements, market trends, and relevant data to identify profitable opportunities and minimize risks. It's essential for successful investing in the modern economy.



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# WE ARE



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# PROBLEM STATEMENT

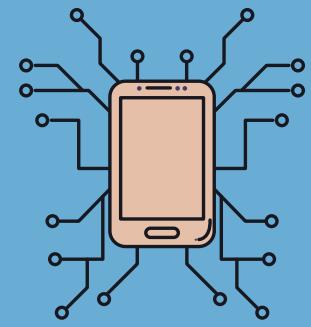
To analyze and compare the stock market performance of industry-leading companies in specific sectors listed on the Bombay Stock Exchange (India) and NASDAQ (USA) to assess the performance patterns and understand how Indian companies fare against American counterparts.



# OUR APPROACH

- We categorized the market into six major sectors, analyzed the dataset, and created graphs to visually represent the changes in stock prices in a comprehensible manner.
- We focused on the 2009 recession, the first of the 21st century, and performed a stock performance analysis to produce qualitative results.
- We compared the performance of specific sectors in both the Indian and American stock markets during the 2009 recession to gain a better understanding of the market trends.

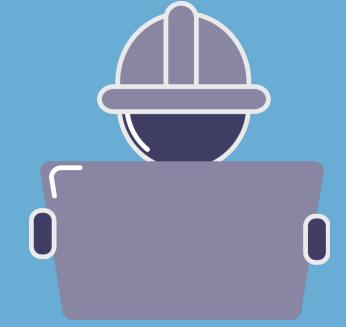
# SECTORS



Technology



Finance



Construction



Pharmaceuticals



FMCG



Oil and Gas

# RESOURCES



Google  
Finance



# Dataset after Cleaning

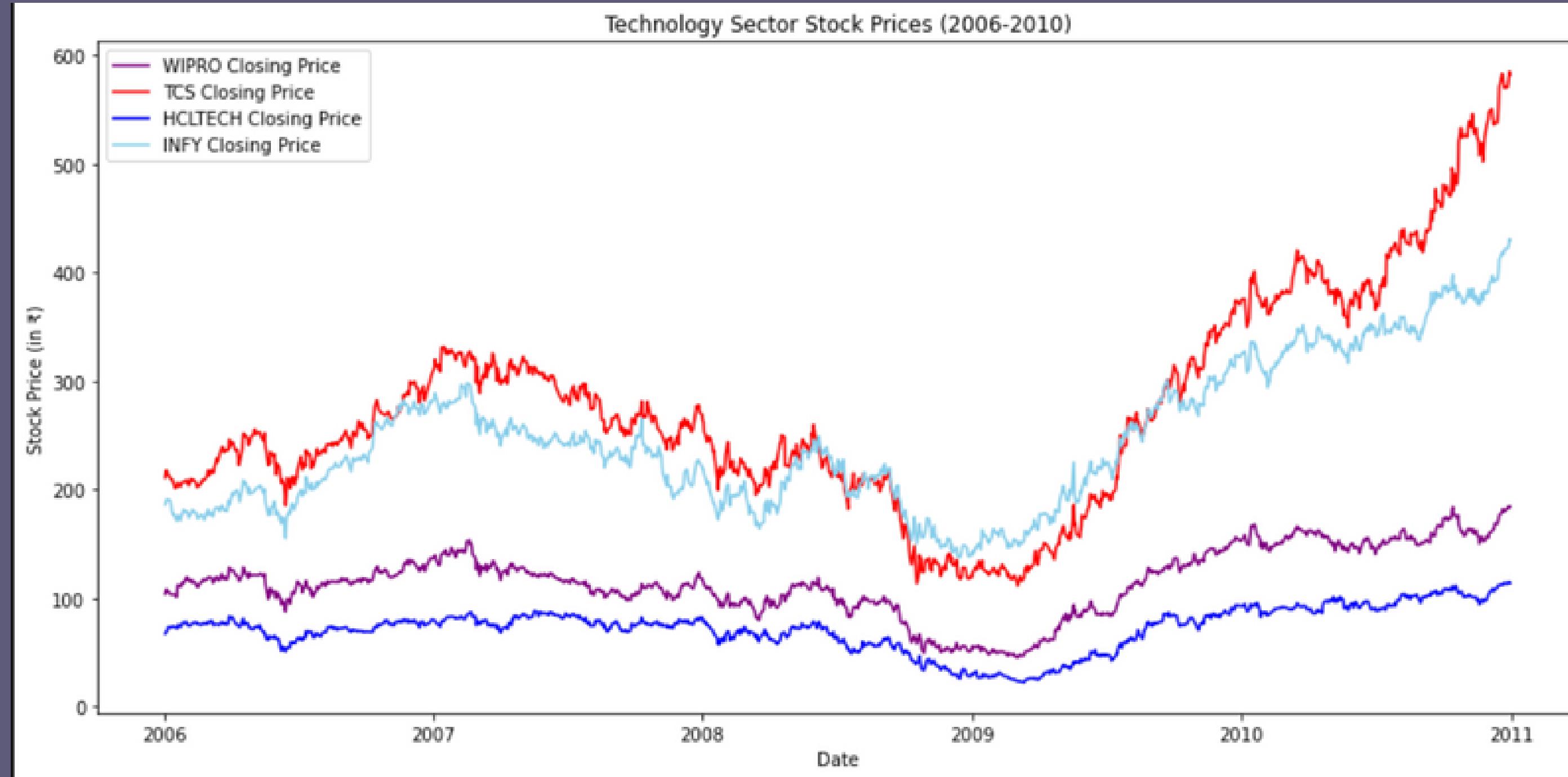
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	<b>Open</b>	<b>High</b>	<b>Low</b>	<b>Close</b>	<b>Volume</b>
<b>Date</b>					
2006-01-02	213.50	213.86	210.17	210.95	206688
2006-01-03	210.66	217.49	210.25	216.65	424617
2006-01-04	217.50	218.74	215.28	217.89	443202
2006-01-05	218.13	218.25	215.24	216.55	178978
2006-01-06	216.88	217.49	211.50	213.20	370718

# Technology

INDIA

# Common Trends



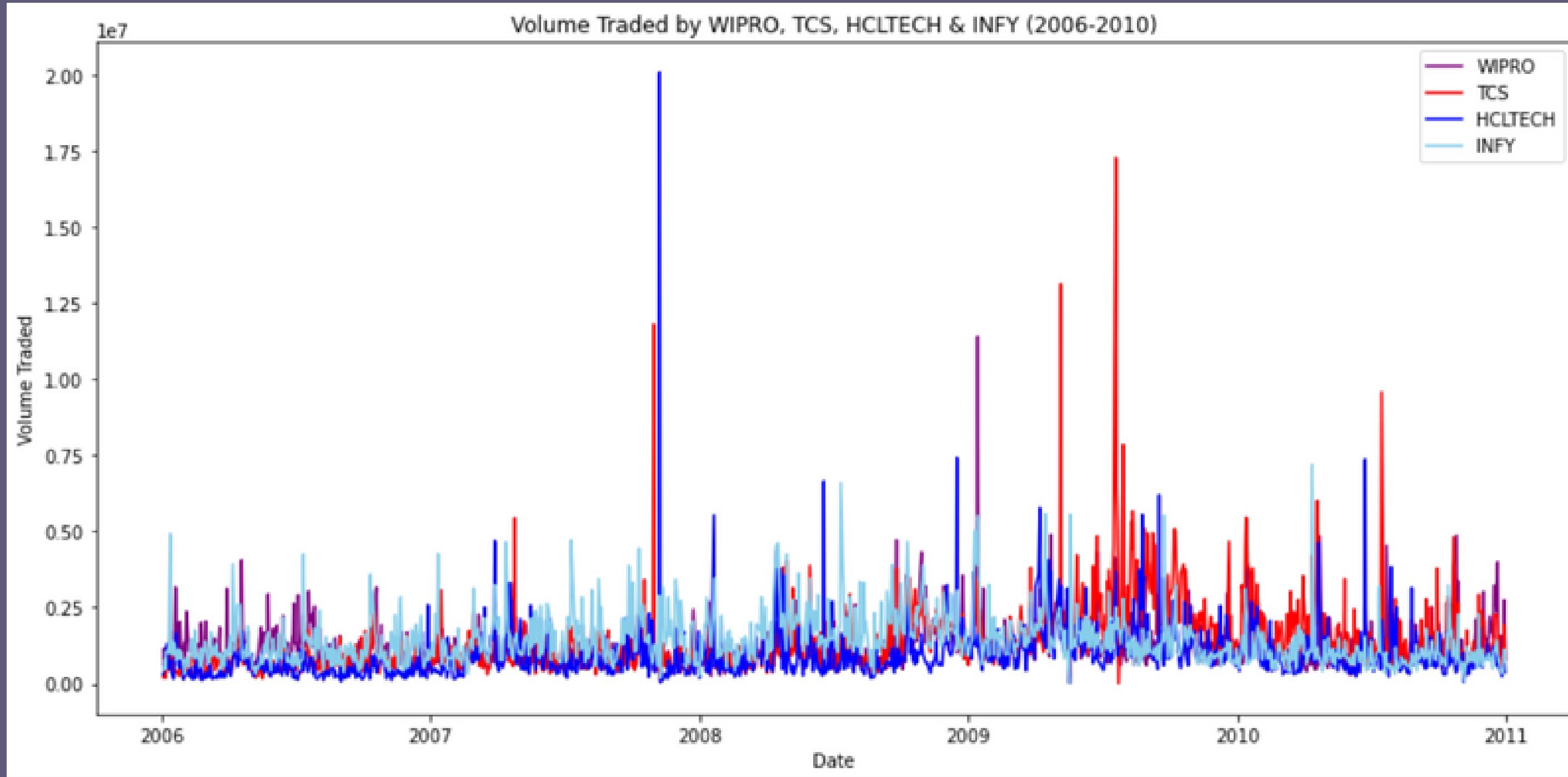
# Technology

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INDIA

# Volume Traded

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# News Article

The screenshot shows the homepage of oHerald, a news website. At the top, the logo 'oHerald' is displayed with the tagline 'The Voice of Goa — since 1960'. Below the logo, the date 'MONDAY, APRIL 10, 2023' is shown. On the right side of the header, there are links for 'CITIZEN JOURNALIST' and social media icons for Facebook, Twitter, YouTube, and a search icon. The main navigation menu includes 'HOME', 'GOA', 'EDIT', 'HERALDTV LIVE', 'CAFE', 'SPORTS', 'REVIEW', 'VIDEOS', 'INSIGHT', 'OBITUARIES', 'ARCHIVES', 'ADVERTISE', and 'CONTACT US'. A blue bar below the menu contains the link 'E-PAPER'. The main content area features a news article titled 'Wipro, Megasoft on World Bank blacklist' dated '13 Jan 2009 | 12:00am IST'. The article summary states: 'WASHINGTON, JAN 12 India's third largest software exporter Wipro joined bribery-tainted Satyam in a club of companies barred from doing business with the World Bank on charges of offering improper benefits to the Bank staff.' To the right of the article, there is a sidebar with the 'Herald TV' logo, a 'WATCH NOW' button, a video thumbnail labeled 'VIDEOS', and a 'VIEW ALL' link.

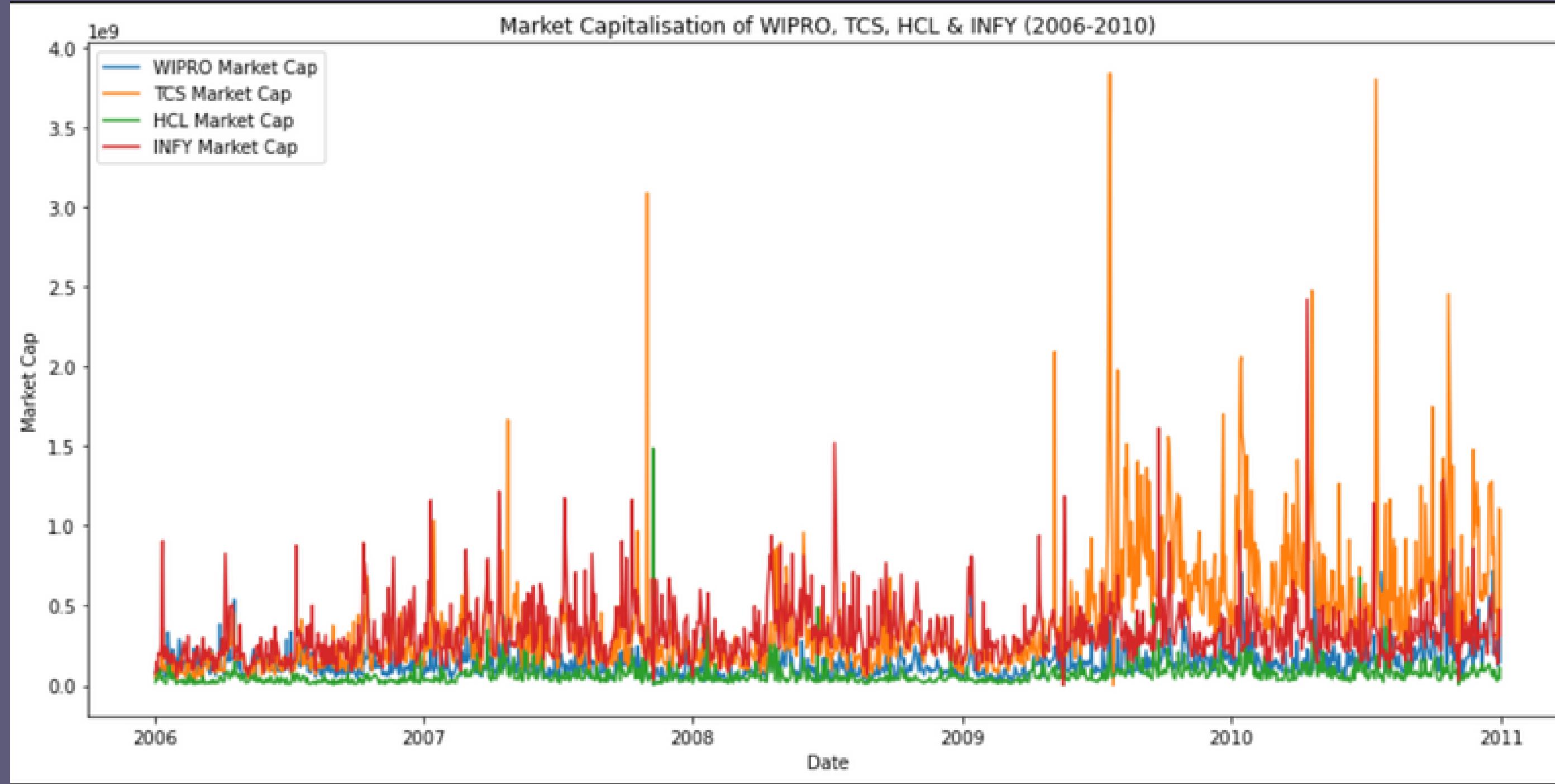
Tata Consultancy Services Ltd TCS.B0, the country's top IT-services firm by sales, surged 15.3 percent to 500.10 rupees, its best one-day percentage gain, after it beat forecasts with a 22 percent rise in quarterly profit.  
[ID:nBOM352657]

The screenshot shows a news article from Reuters. The top navigation bar includes links for 'World', 'Business', 'Markets', 'Breakingviews', 'Video', and 'More'. The main headline is 'Indian shares rise 3 pct; Reliance, TCS rally'. Below the headline, it says 'By Prashant Nanayanan' and '0 MIN READ'. There are three bullet points under the article summary: 'Positive earnings boost global investor appetite', 'Reliance Ind gains 5 pct as hearing begins on gas dispute', and 'Tata Consultancy surges 15.3 pct after Q1 profit rise (Adds closing prices, details on Reliance firms, analyst comments, European markets performance)'. The bottom right corner of the page has a small 'REUTERS' logo.

# Technology

INDIA

# Market Capital



# News Article



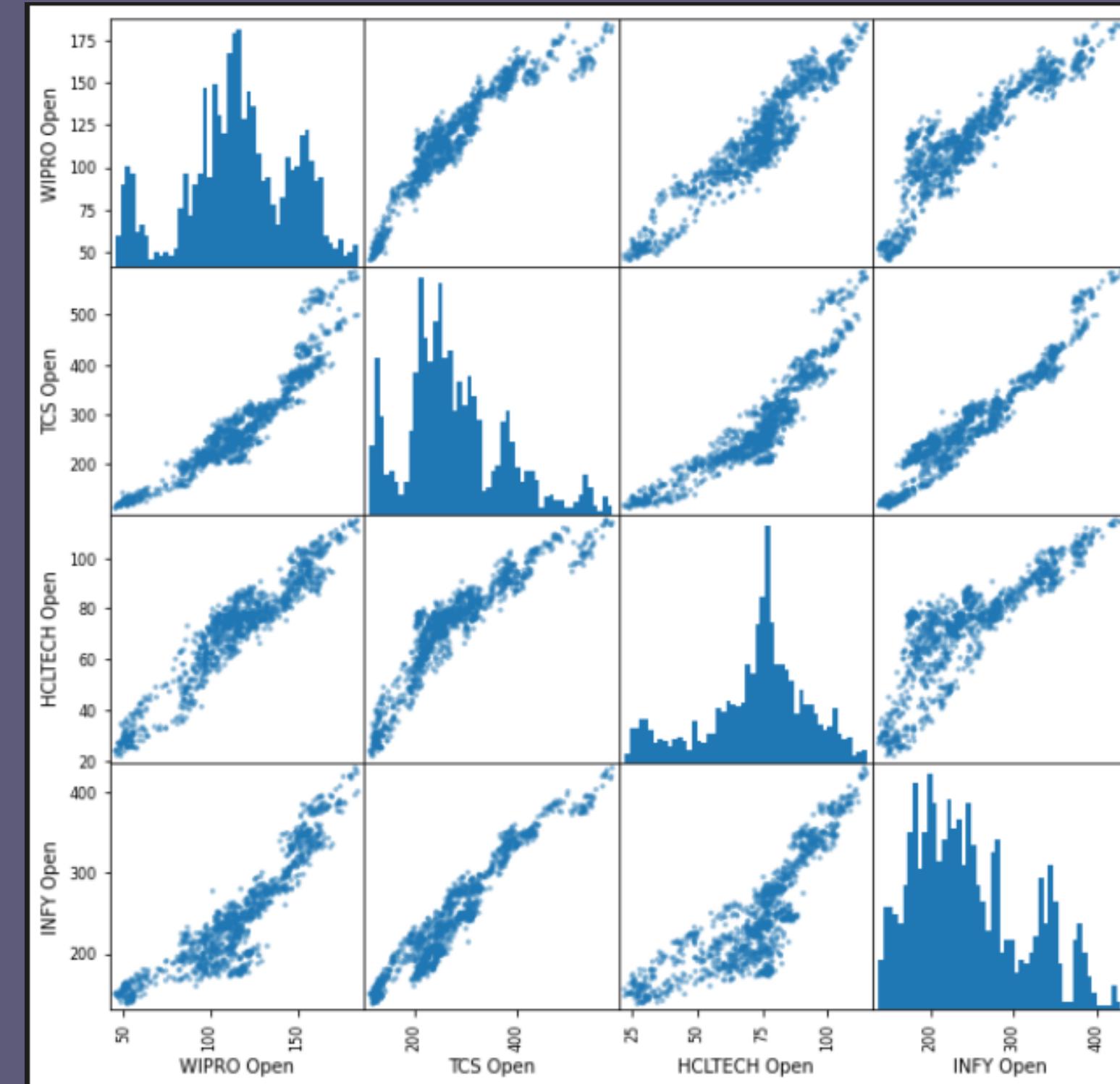
## Long-term target on TCS at Rs 1200: Gujral

3.35 pm | 26 Oct 2010 | Source: CNBC-TV18

Longer term targets on TCS have opened up to about Rs 1200, so that seems likely. In tech, if you have to been in something, probably TCS is your stoc...

# Technology

# Scatter Matrix



## Daily Percentage Change

$$r_t = \frac{p_t}{p_{t-1}} - 1$$

where,  $r_t$  is percentage change on  $t^{\text{th}}$  day

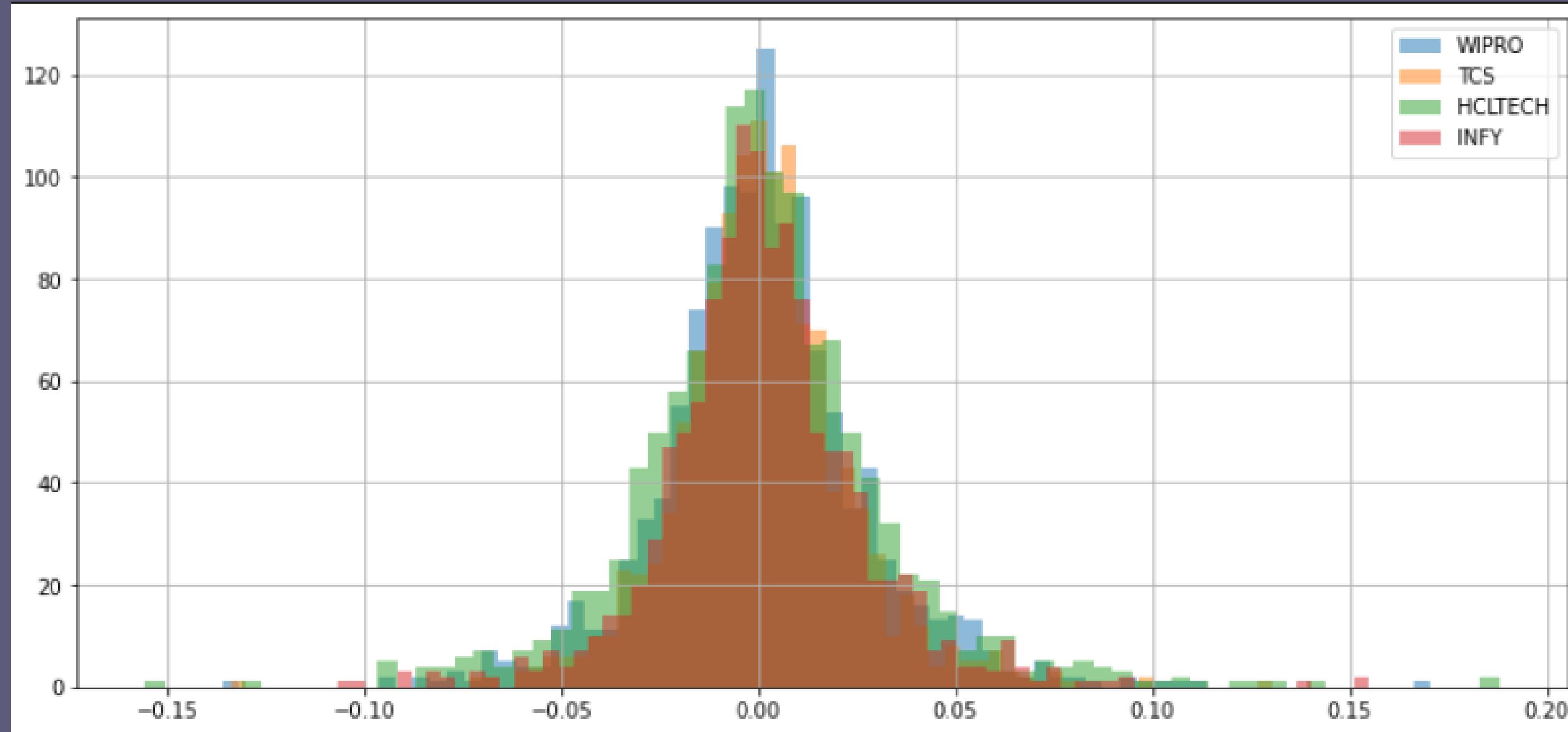
where,  $p_t$  is percentage change on  $t^{\text{th}}$  day

The width of Histogram plot signifies  
standard deviation

# Technology

# Daily percentage Change

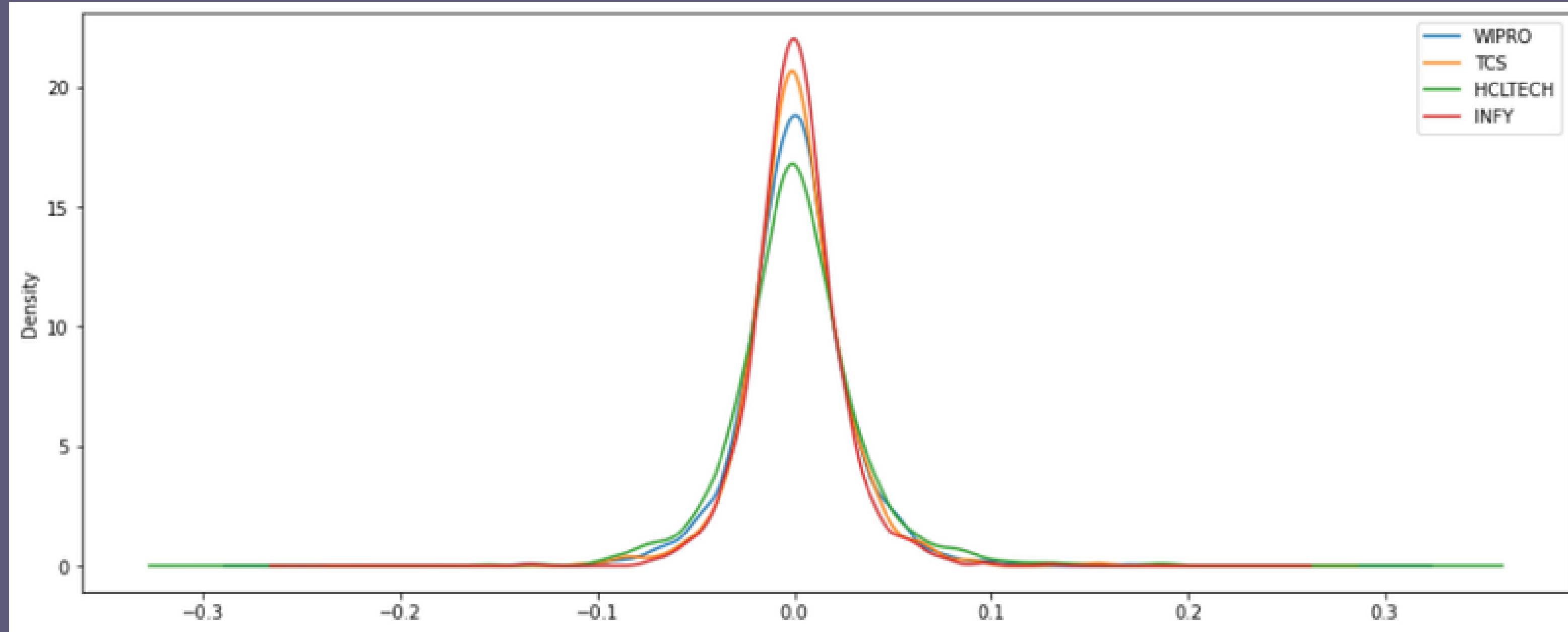
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# Technology

# Kernel Density

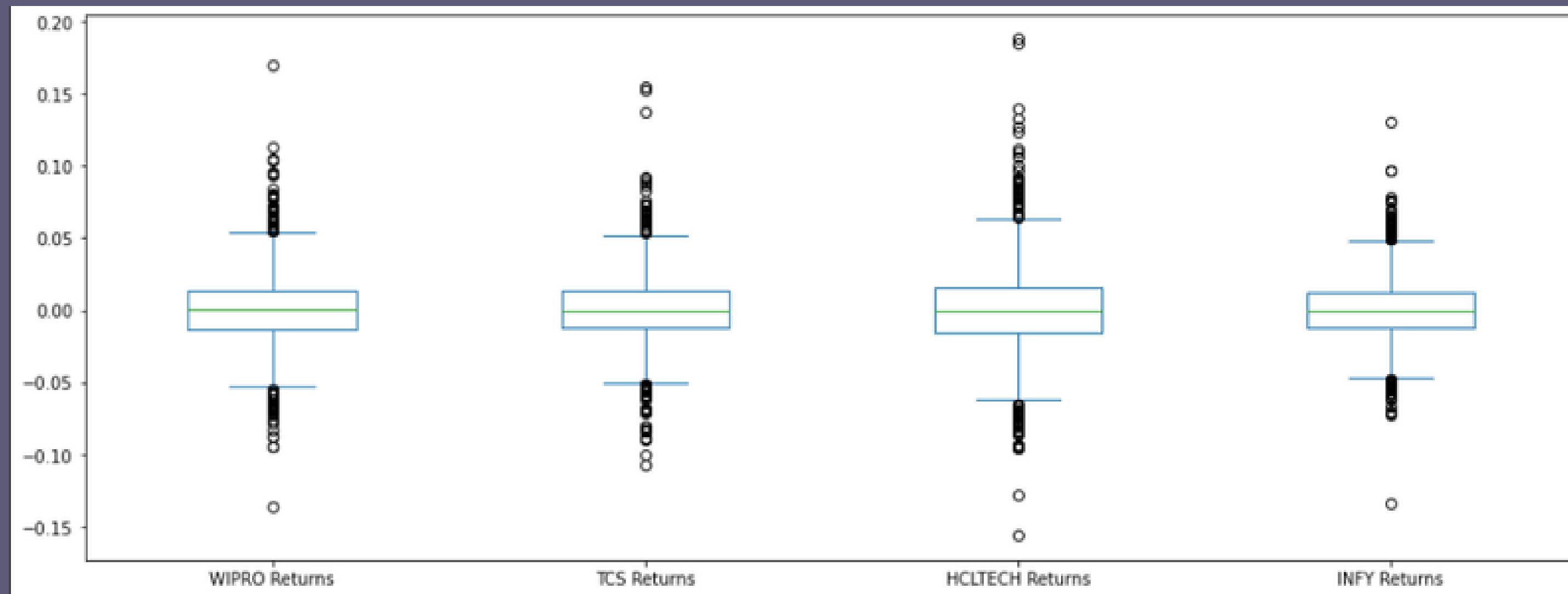
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# Technology

# Box Plot

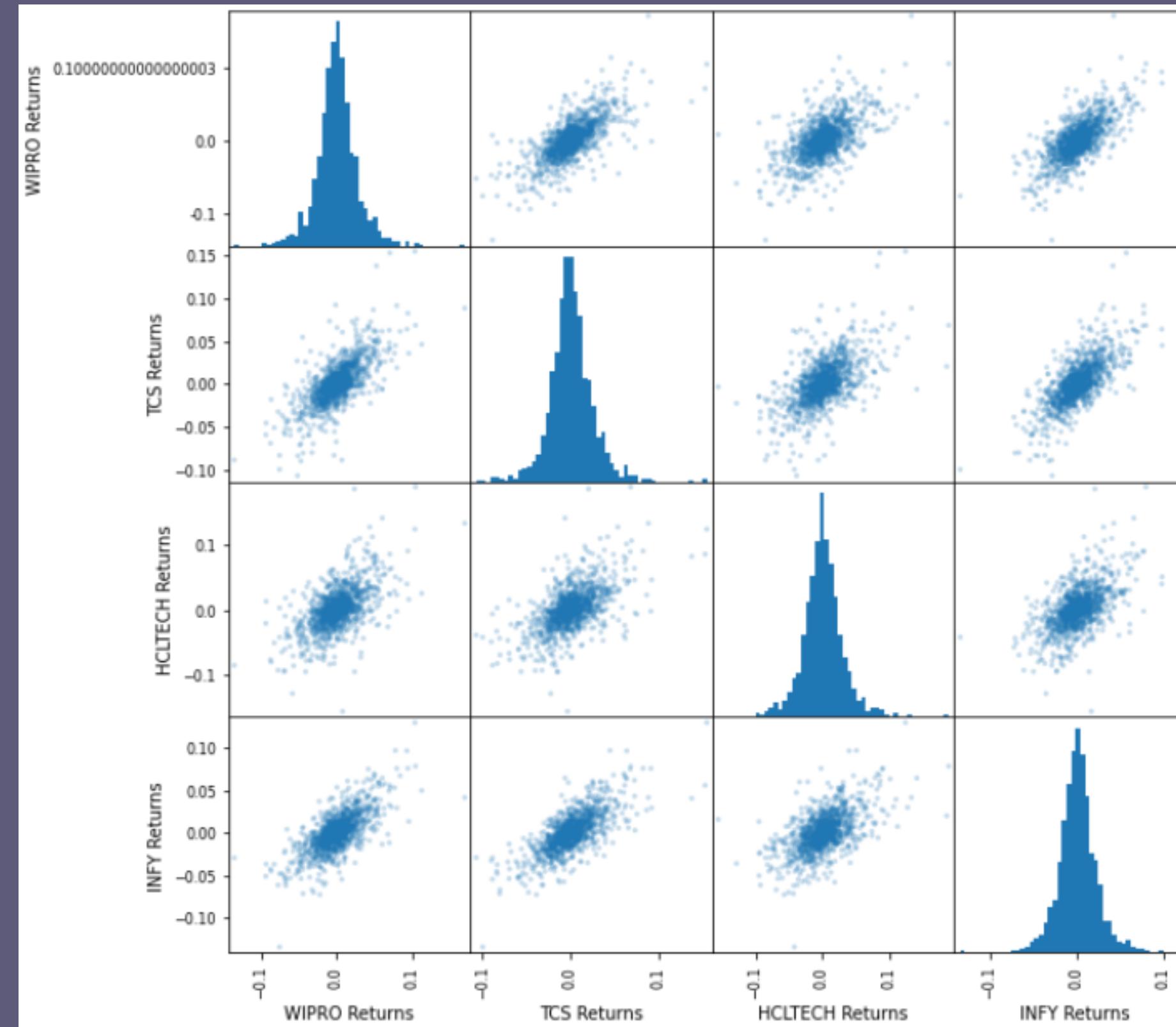
INDIA



VISION

# Technology

# Corr Matrix DPC



## Cummulative Return

where,  $i_t$  is cummulative return on  $t$  day

$$i_t = (1 + r_t) i_{t-1}$$

where,  $r_t$  is percentage change on  $t^{\text{th}}$  day

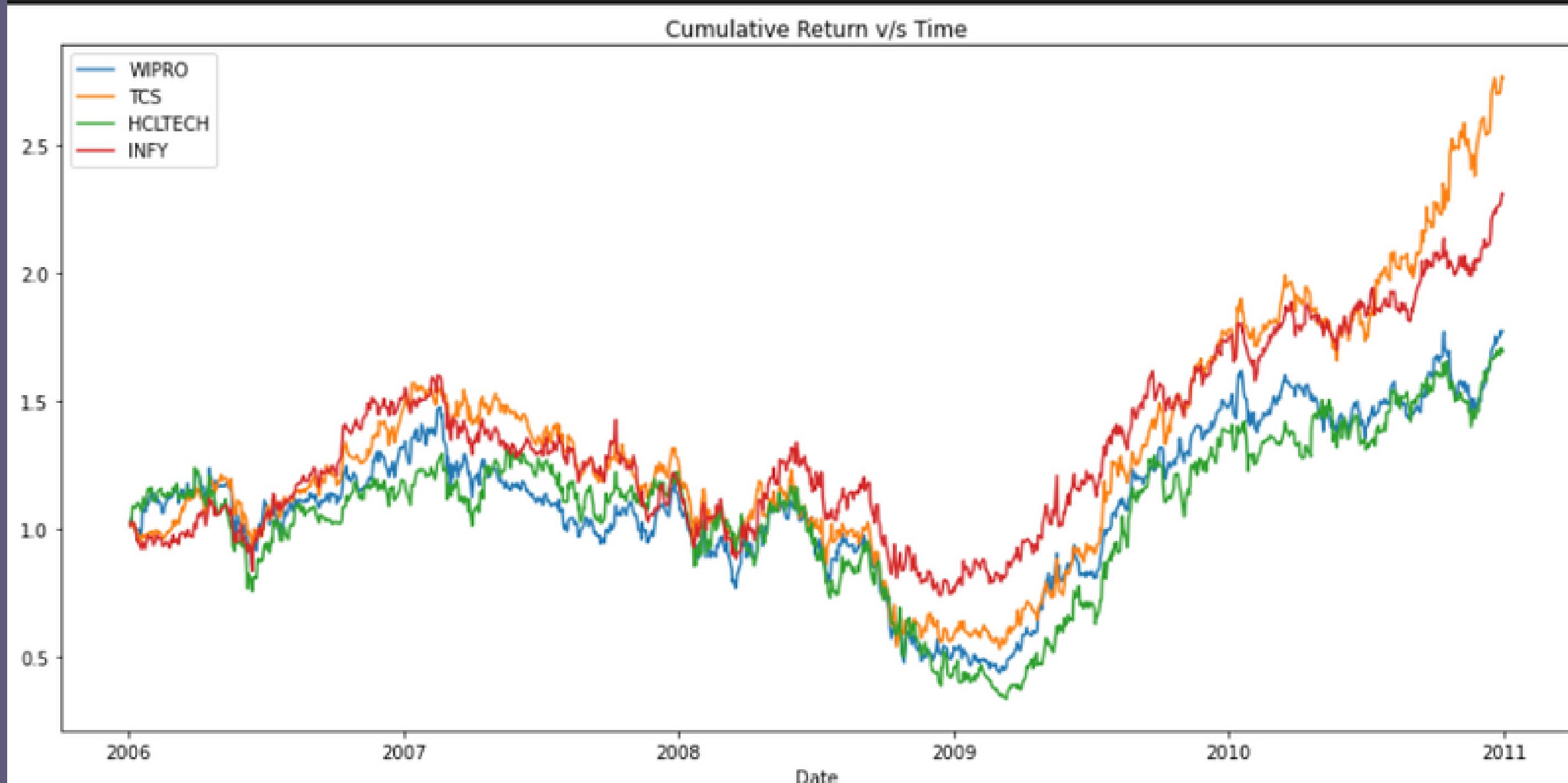
# Technology

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# Cummulative Return

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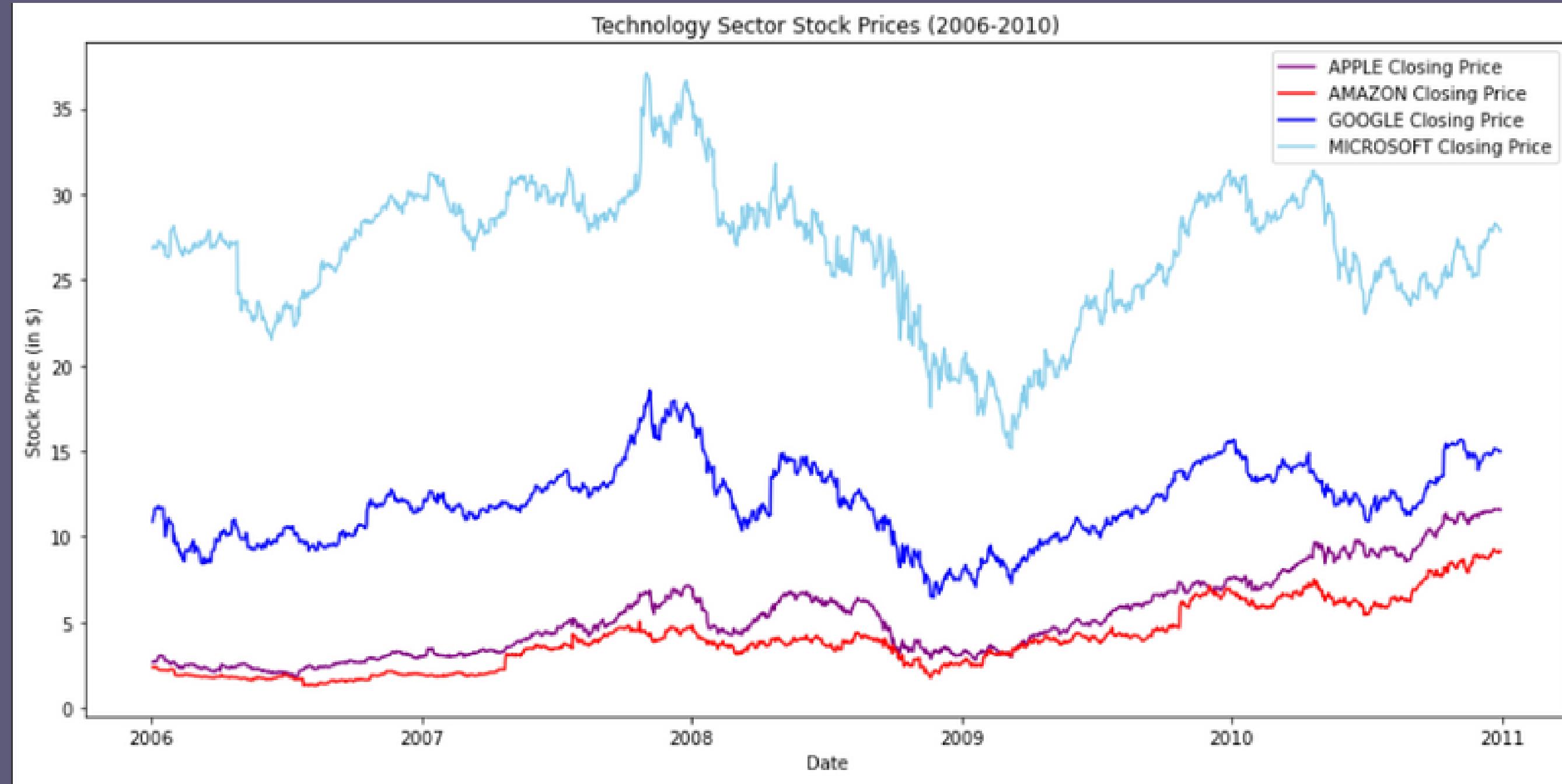
INDIA



USA

# Technology

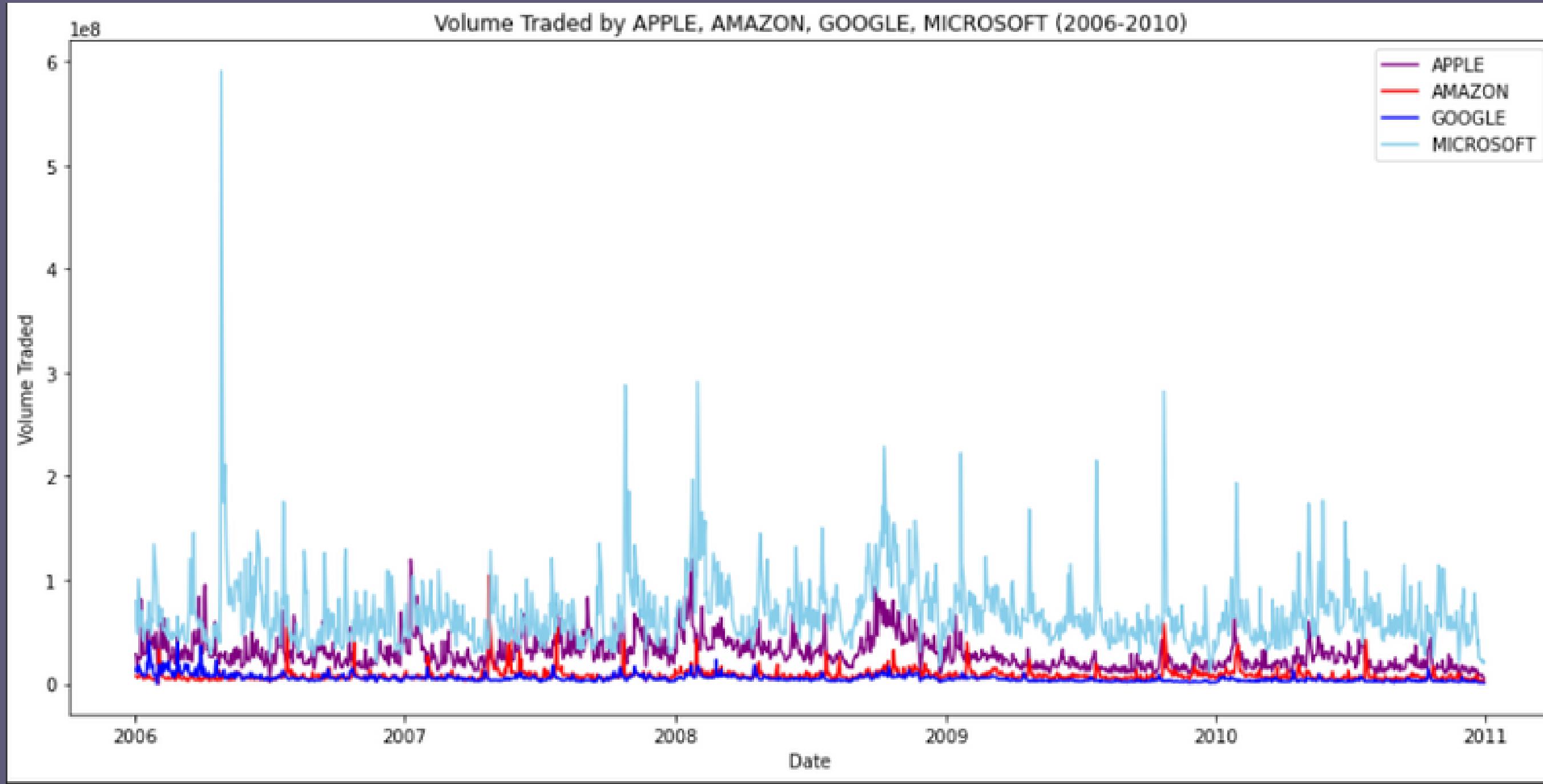
# Common Trends



USA

# Technology

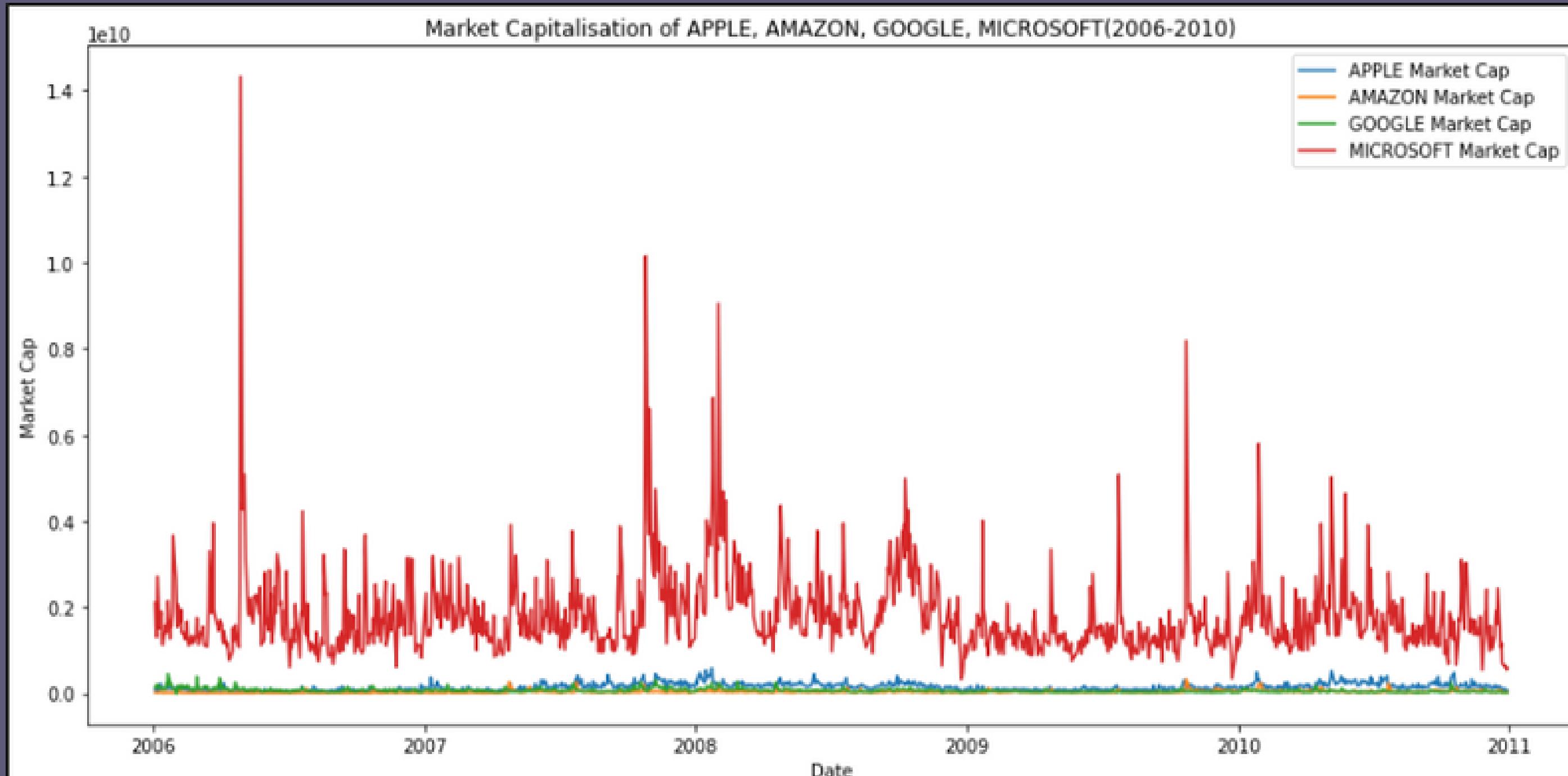
# Volume Traded



USA

# Technology

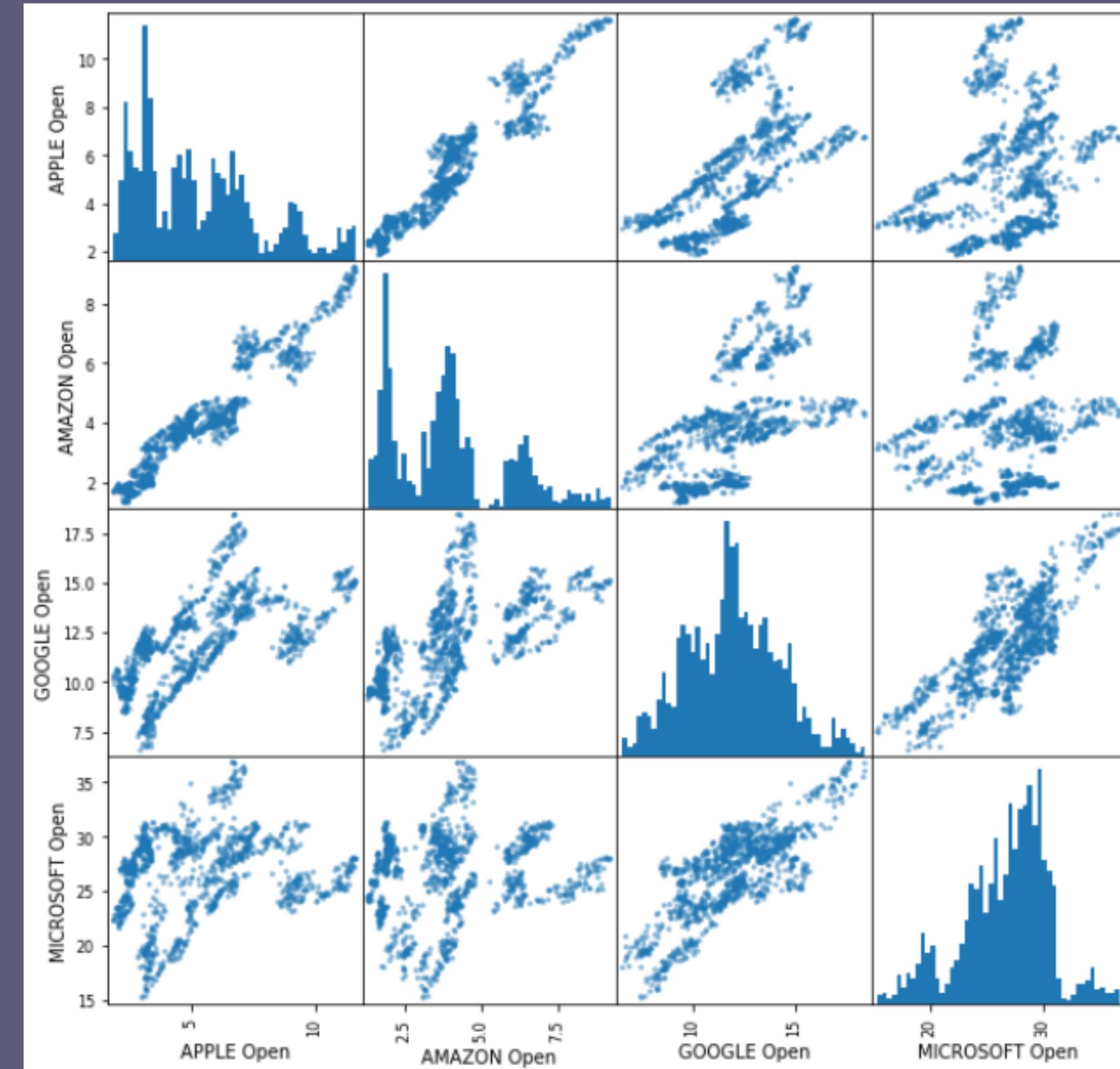
# Market Capital



VSA

# Technology

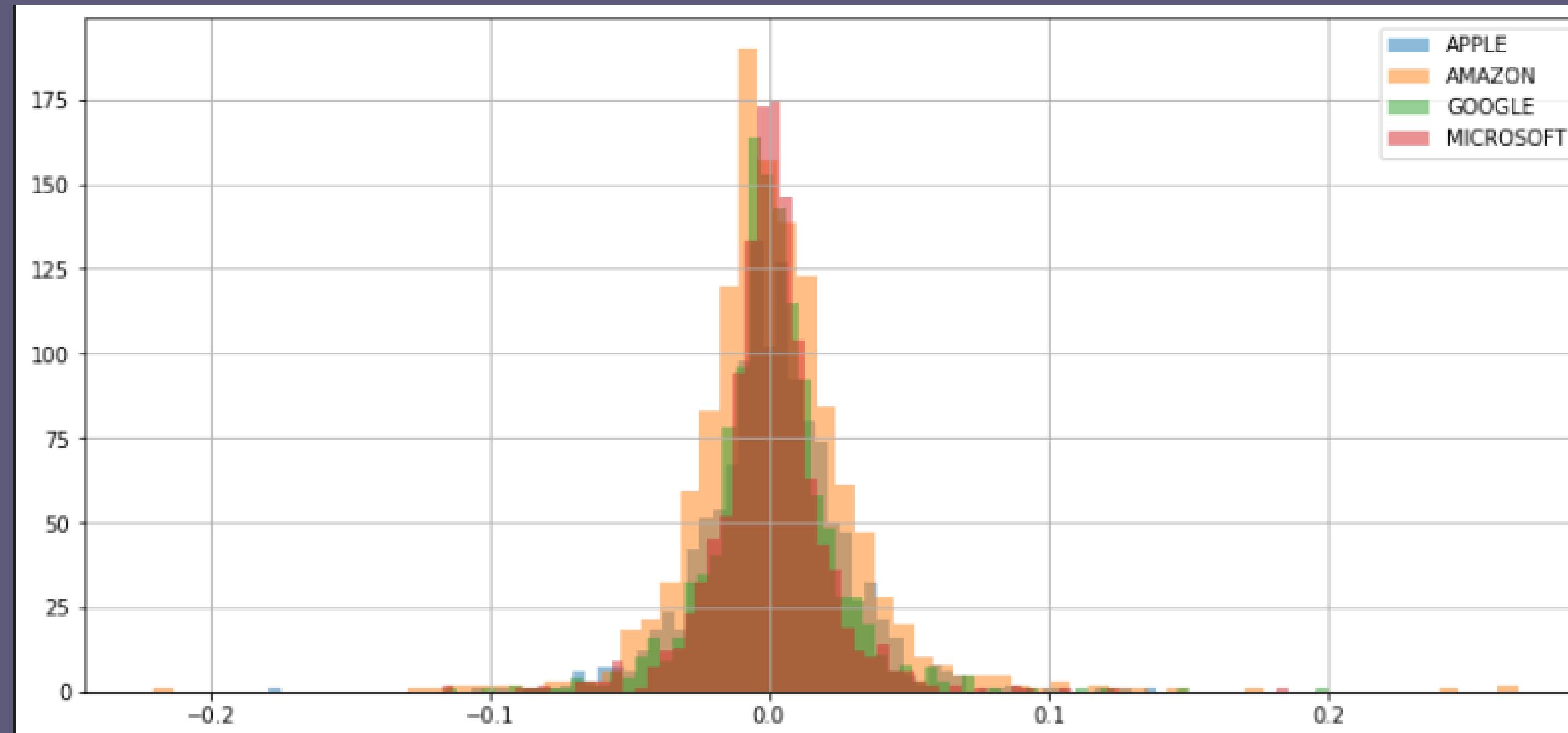
# Scatter Matrix



USA

Technology

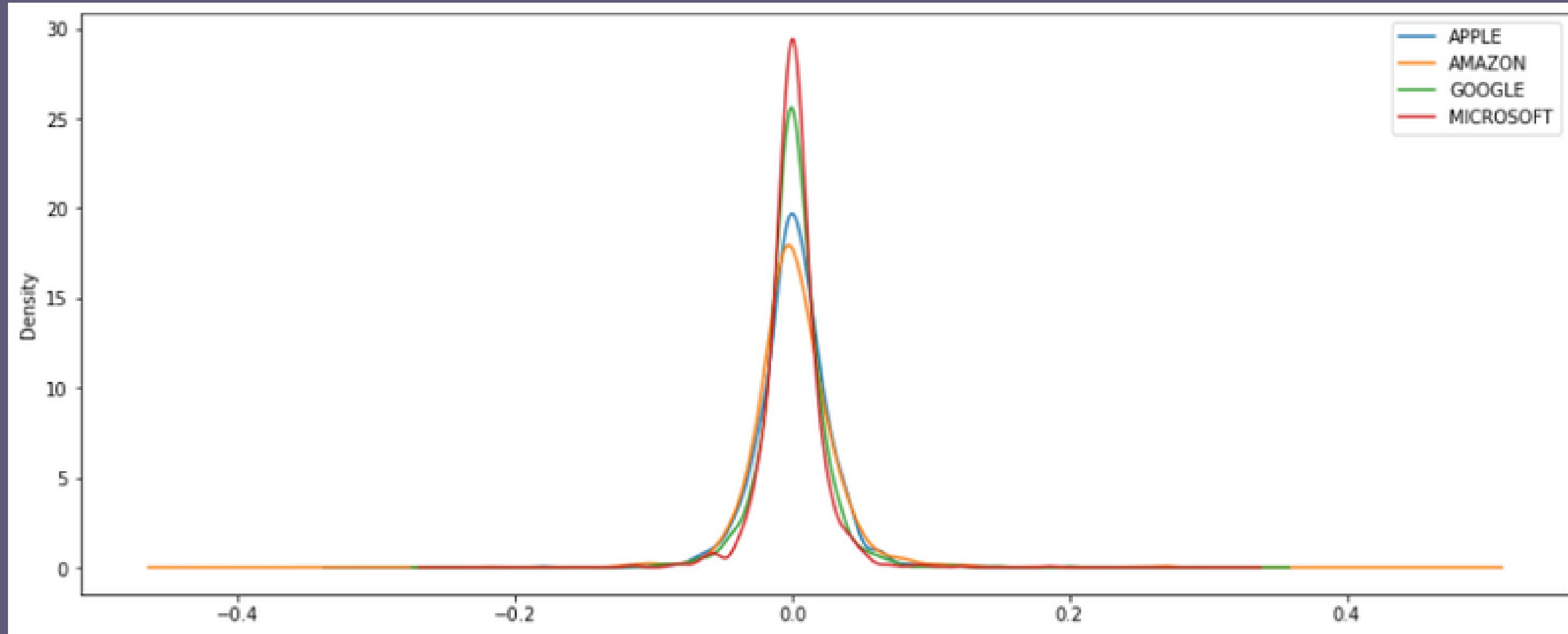
Daily percentage Change



USA

# Technology

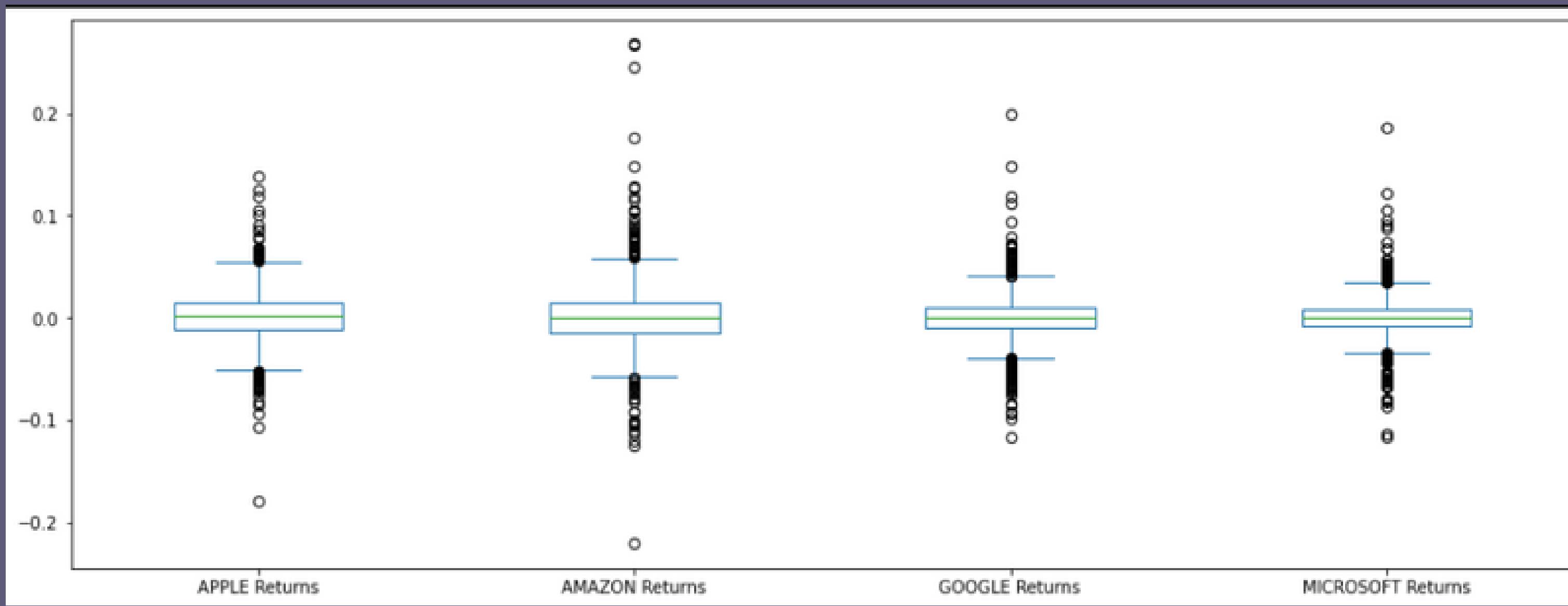
# Kernel Density



# Technology

## Box Plot

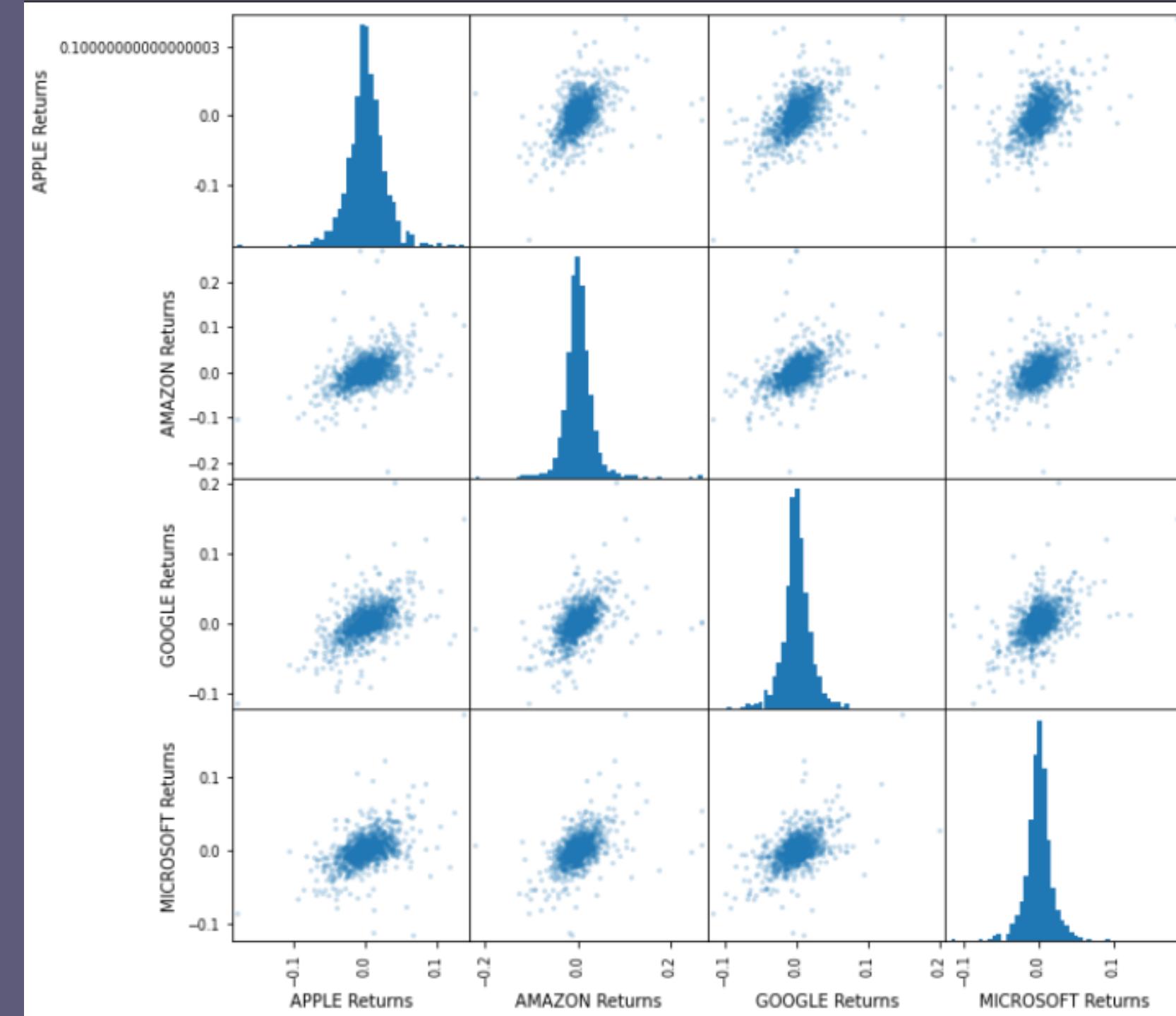
USA



USA

# Technology

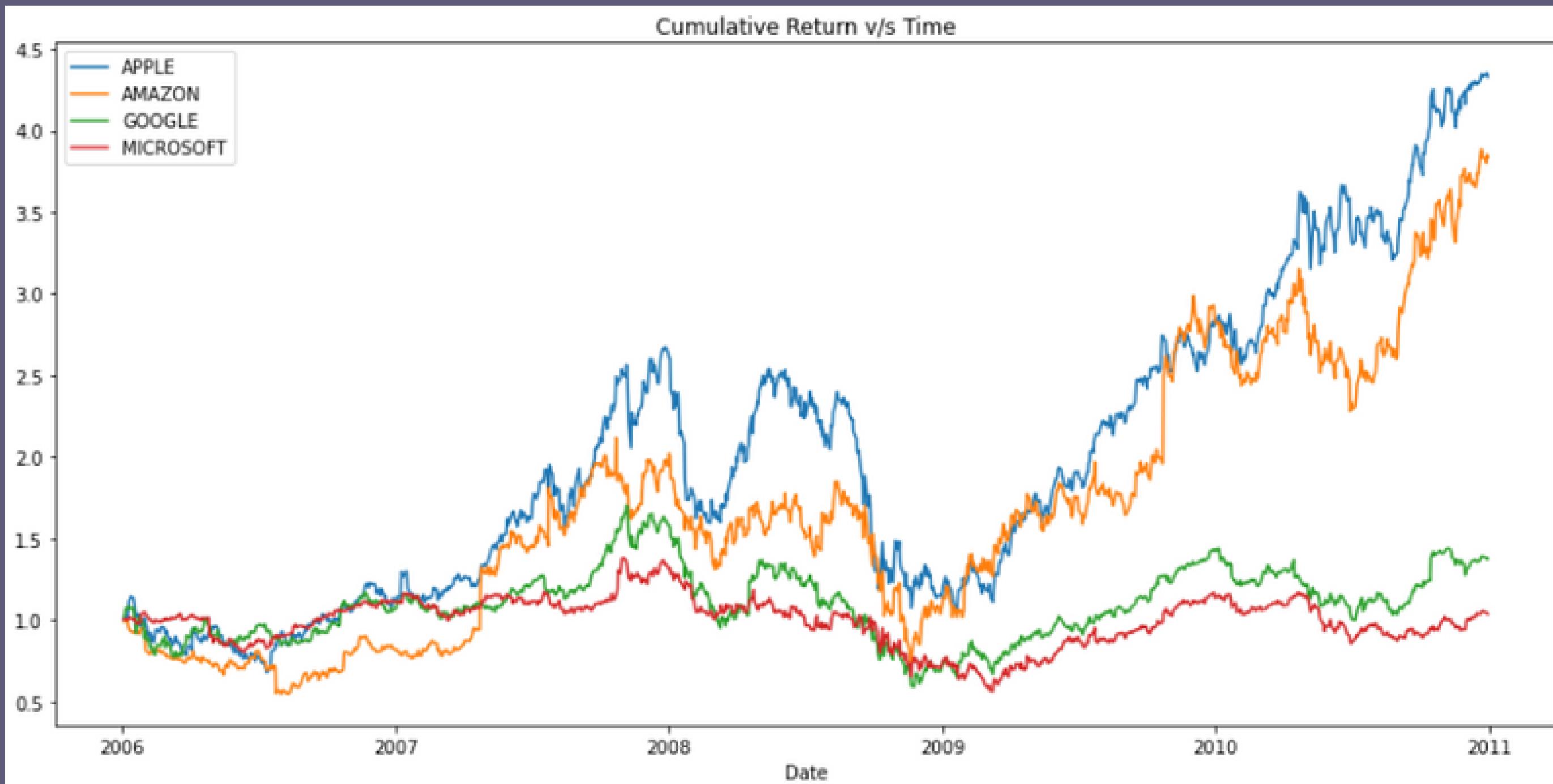
# Corr Matrix DPC



USA

# Technology

# Cummulative Return



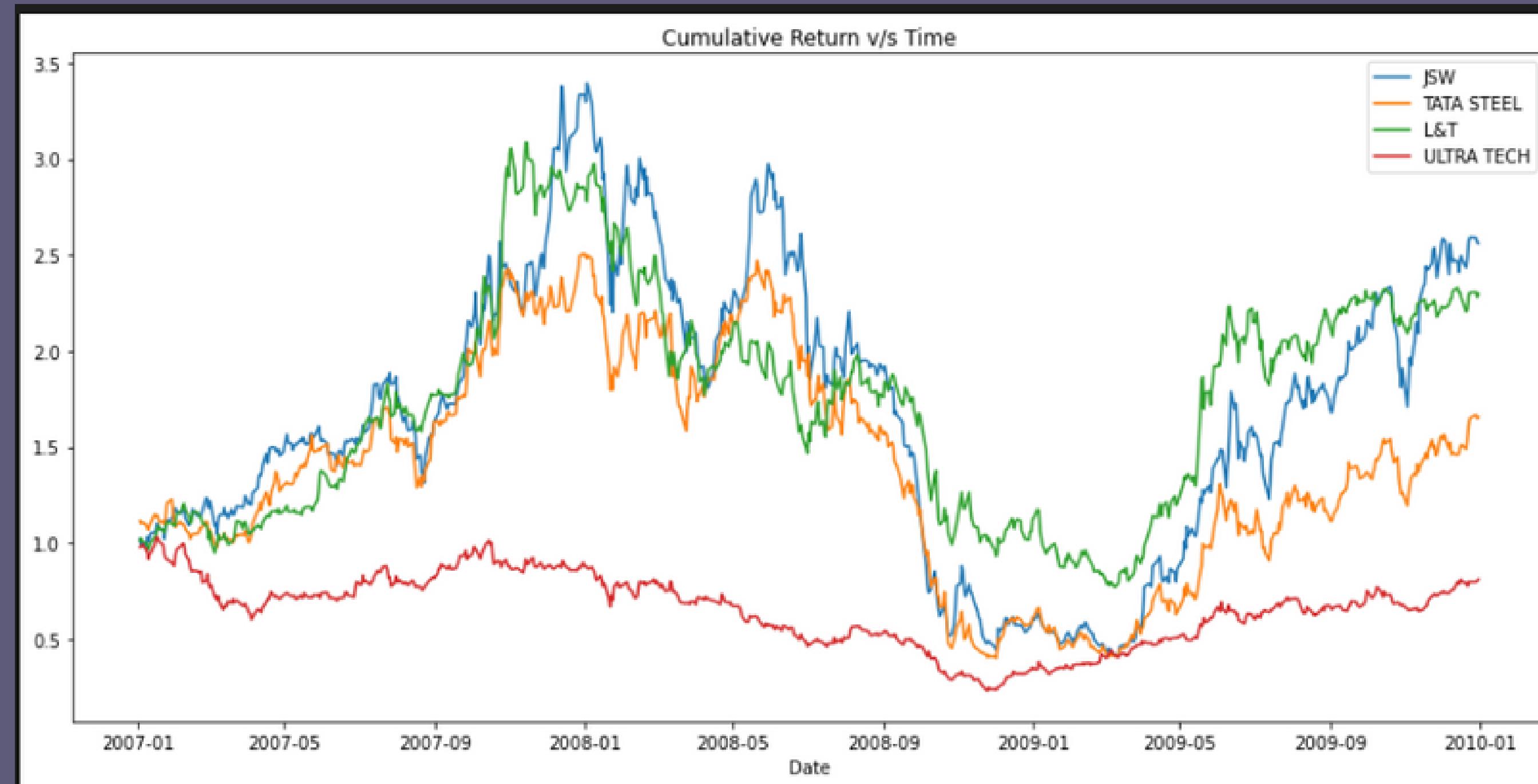
# Construction

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INDIA

# Cummulative Return

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# News Article

The screenshot shows a news article from the Tata Steel website. The header includes the Tata Steel logo, a menu icon, and user icons for login, search, and settings. The breadcrumb navigation shows: Home > Media > Newsroom > Press Releases > India > 2009 > Tata Steel Group reports consolidated results for the quarter ended June 30, 2009. The main title of the article is "Tata Steel Group reports consolidated results for the quarter ended June 30, 2009". Below the title, there are links for "Media Kit" and "Mumbai, August 27, 2009". To the right of the article, there are three small callout boxes: one orange box with a red 'X' labeled "CANCEL AUDIO", one yellow box with a black 'X' labeled "EXPLORE MORE", and one dark grey box with a white 'X' labeled "EXPLORE MORE". The main content of the article discusses the Group's consolidated financial results for Q1 FY'10, highlighting a 22% increase in sales volume, a drop in steel deliveries, and the impact of the global economic downturn.

Tata Steel Group reports consolidated results for the quarter ended June 30, 2009

Media Kit

Mumbai, August 27, 2009

Tata Steel Group today declared unaudited Consolidated Financial Results for the quarter ended June 30, 2009.

**Highlights for the quarter:**

- Sales volume of Indian operations was higher by 22% during Q1 FY'10 over Q1FY'09. Total steel deliveries for the Group for the quarter dropped 37% to 5.443 million tonnes from 8.603 million tonnes in Q1 FY'09 mainly due to fall in volume in Tata Steel Europe (TSE) affected by the demand contraction especially in Europe on account of the global economic downturn.
- Group consolidated turnover was Rs.23,292 crores (US\$ 4,863 million) as compared to Rs. 43,496 crores (US\$ 9,081mn) registered during the first quarter of 2008-09 (Q1 FY'09) caused primarily by the drop in sales volume in TSE as well as drop in prices in India and South-East Asia.
- The cost savings benefits achieved in the first quarter from the 'Weathering the Storm' and 'Fit for the Future' programs was around Rs. 2,200 crores (US\$ 460 mn).
- EBITDA during Q1 FY'10 was Rs. 204 crores (US\$ 43 million) against Rs. 7,375 crores (US\$ 1,540 mn) in Q1 FY'09. The drop in EBITDA was attributable mainly to the challenging economic environment caused by the global recession especially in UK & Europe.
- Consequently, Loss after tax (after minority interest and share of profit of associates) was Rs. 2,209 crores (US\$ 461mn) as compared to a profit of Rs.3,901 crores (US\$ 814 mn) in Q1 FY'09.

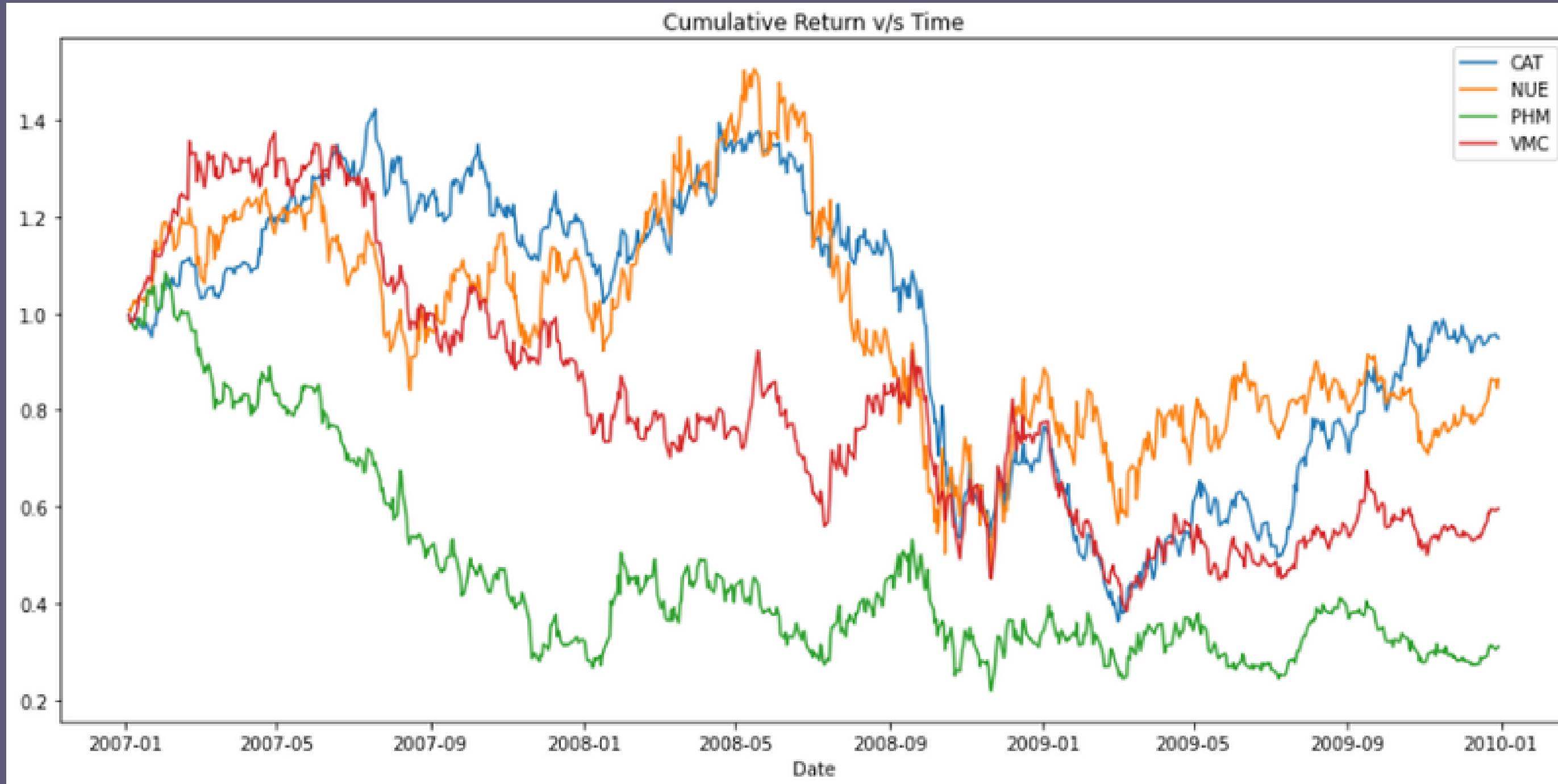
# Construction

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USA

# Cummulative Return

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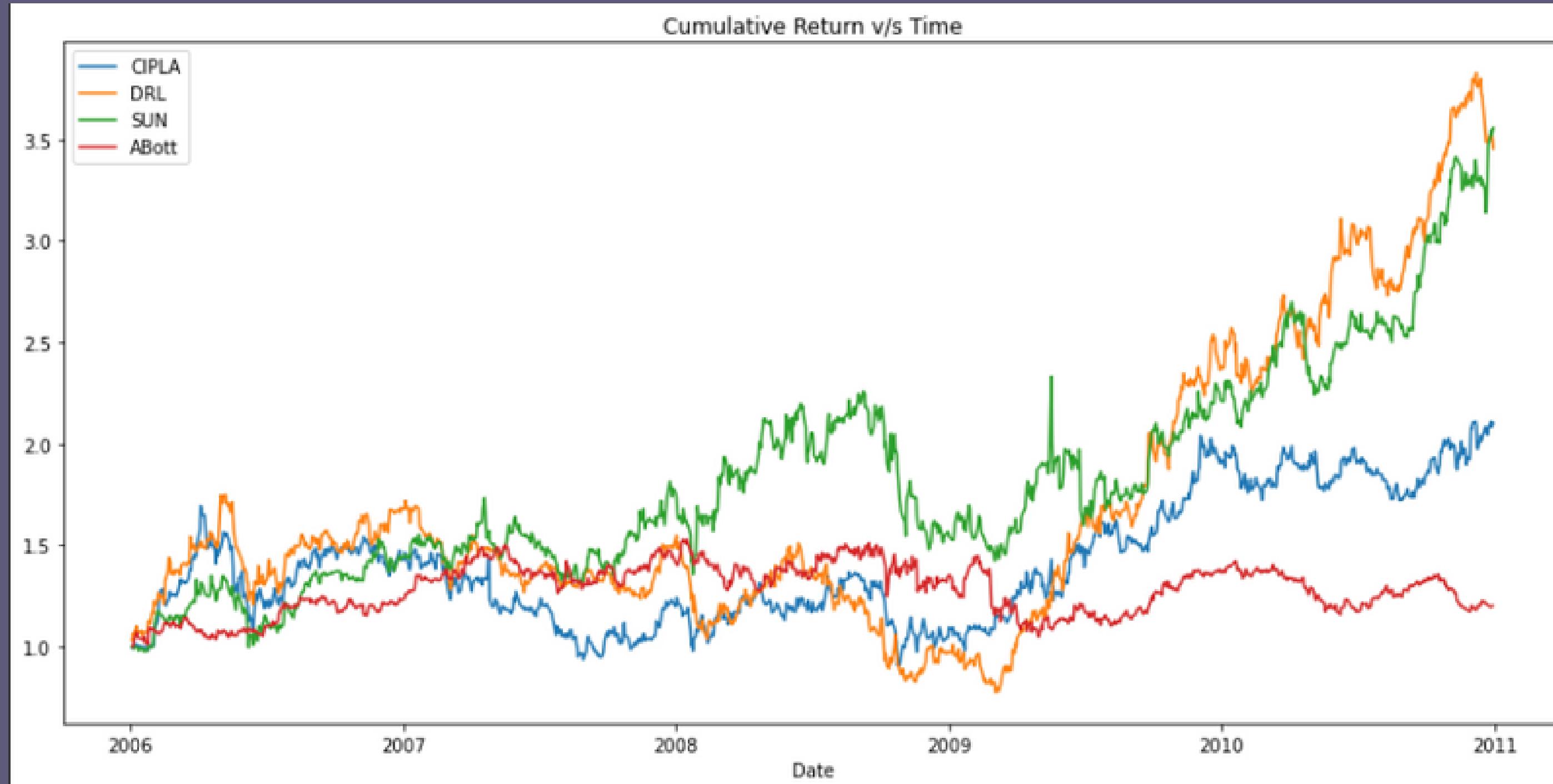
# Pharmaceuticals

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# Cummulative Return

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# News Article

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## Cipla gets fresh notice on drug price violation

1 min read · Updated: 23 Jan 2008, 10:41 PM IST

[C.H. Unnikrishnan](#)

**Gainers & Losers**  
Tue Apr 11 2023 14:34:35

**TOP GAINERS** **TOP LOSERS**

Kotak Mahindra Bank	1,846.8 4.99%
ITC	397.95 2.38%
ICICI Bank	883 1.69%
Tata Steel	106.6 1.57%
Maruti Suzuki India	8,648 1.33%

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## SYNOPSIS

Cipla gets fresh notice on drug price violation

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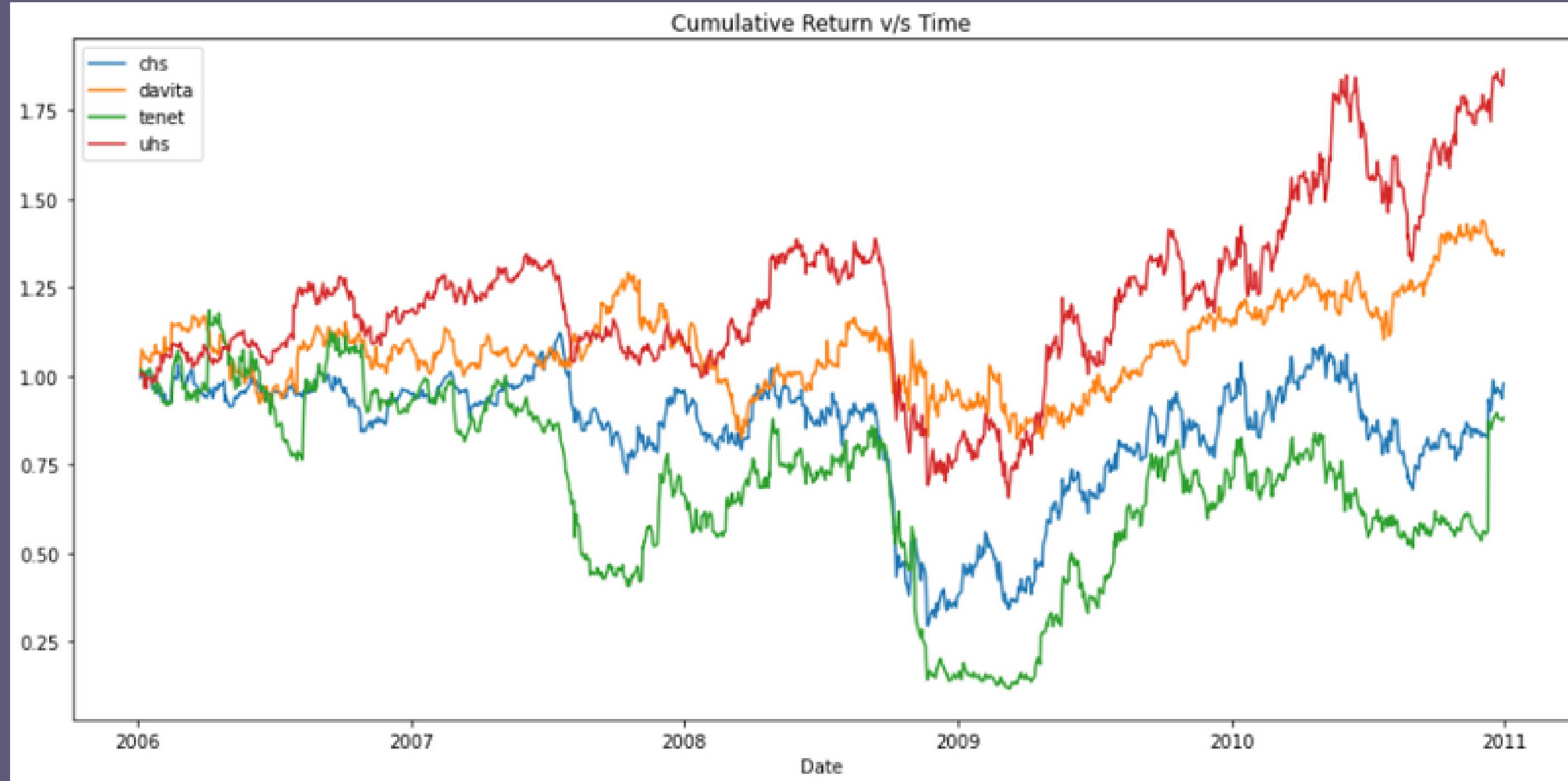
# Pharmaceuticals

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USA

# Cummulative Return

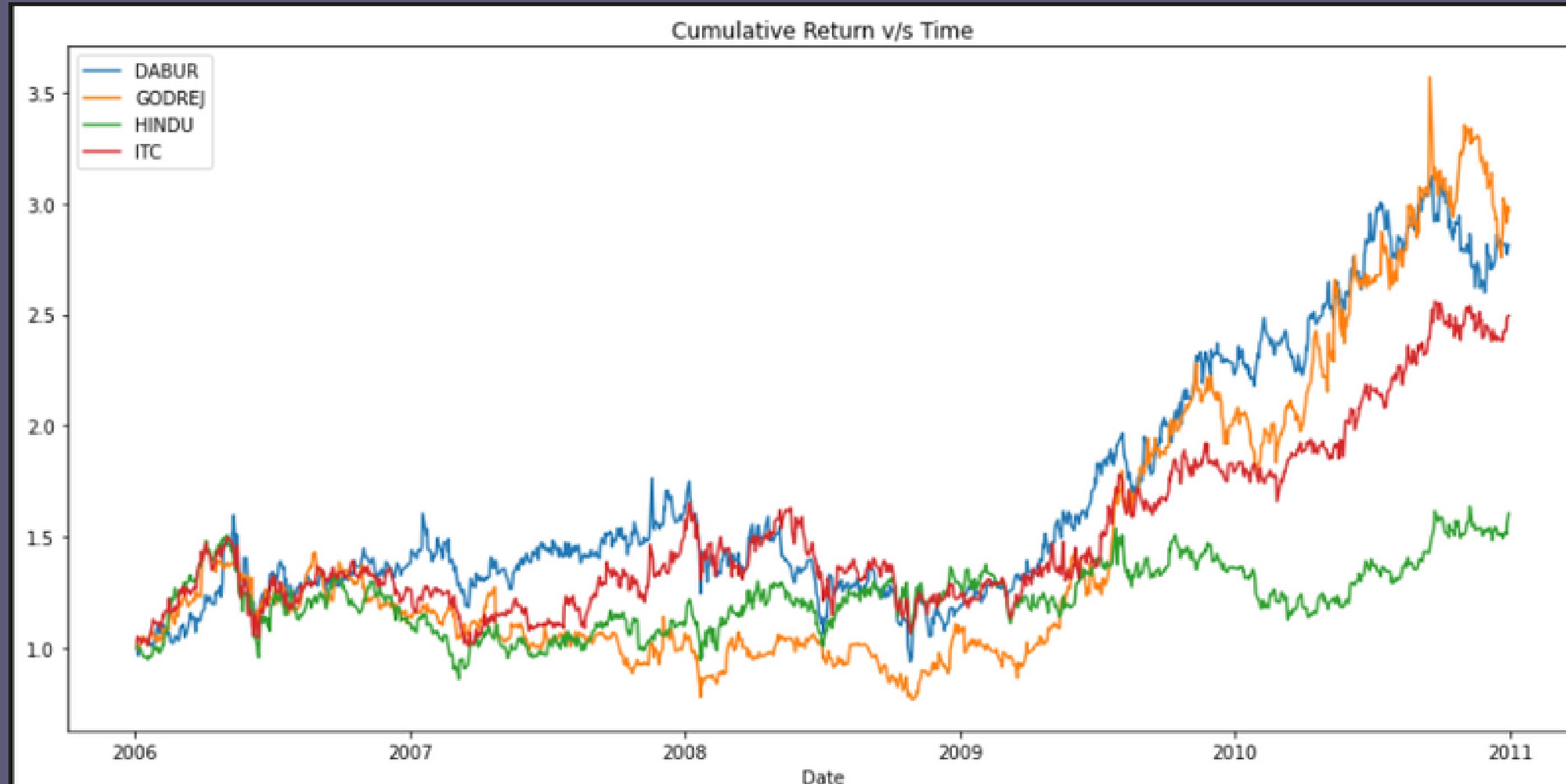
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# FMCG

# INDIA

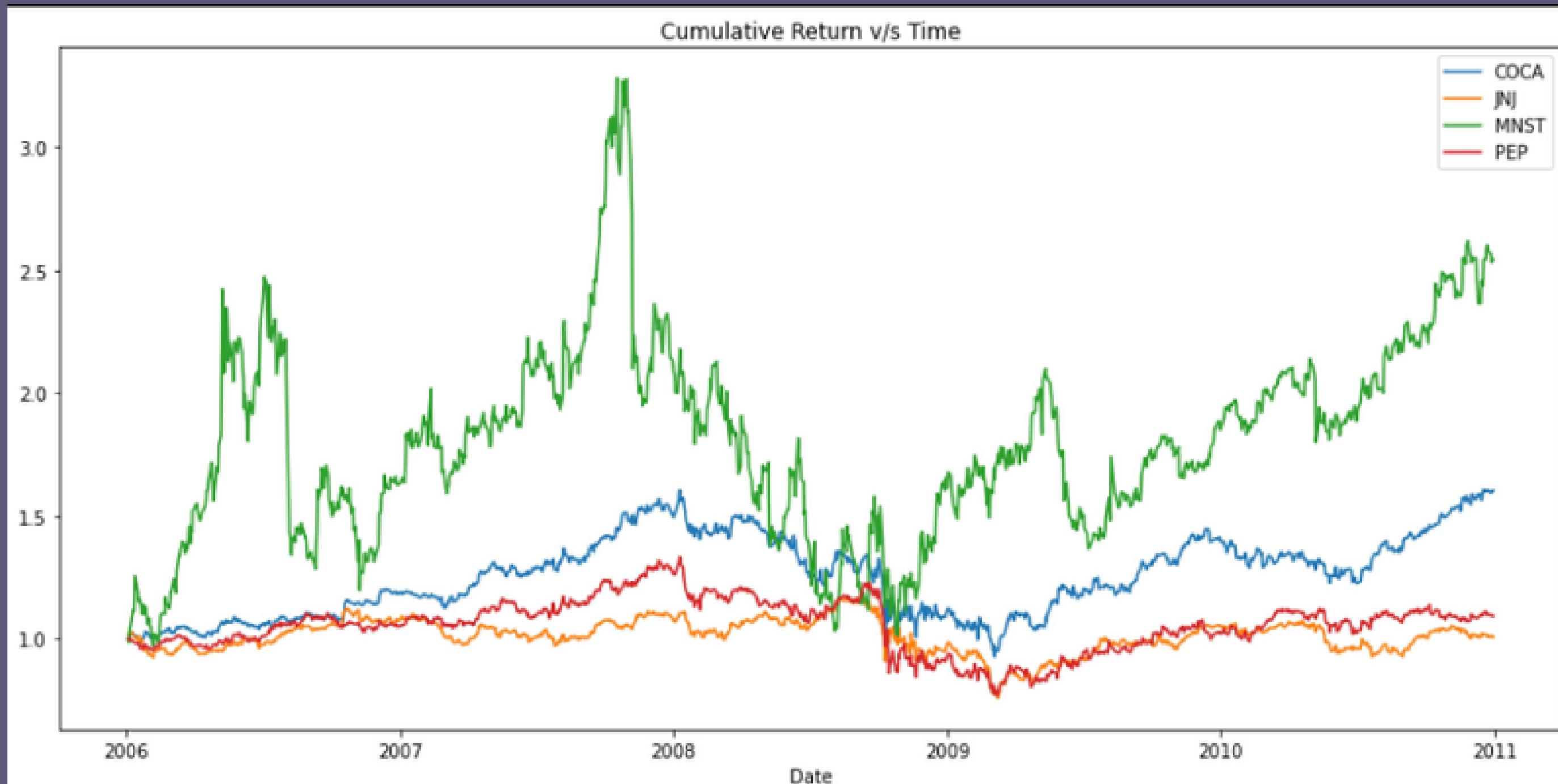
## Cummulative Return



# FMCG

USA

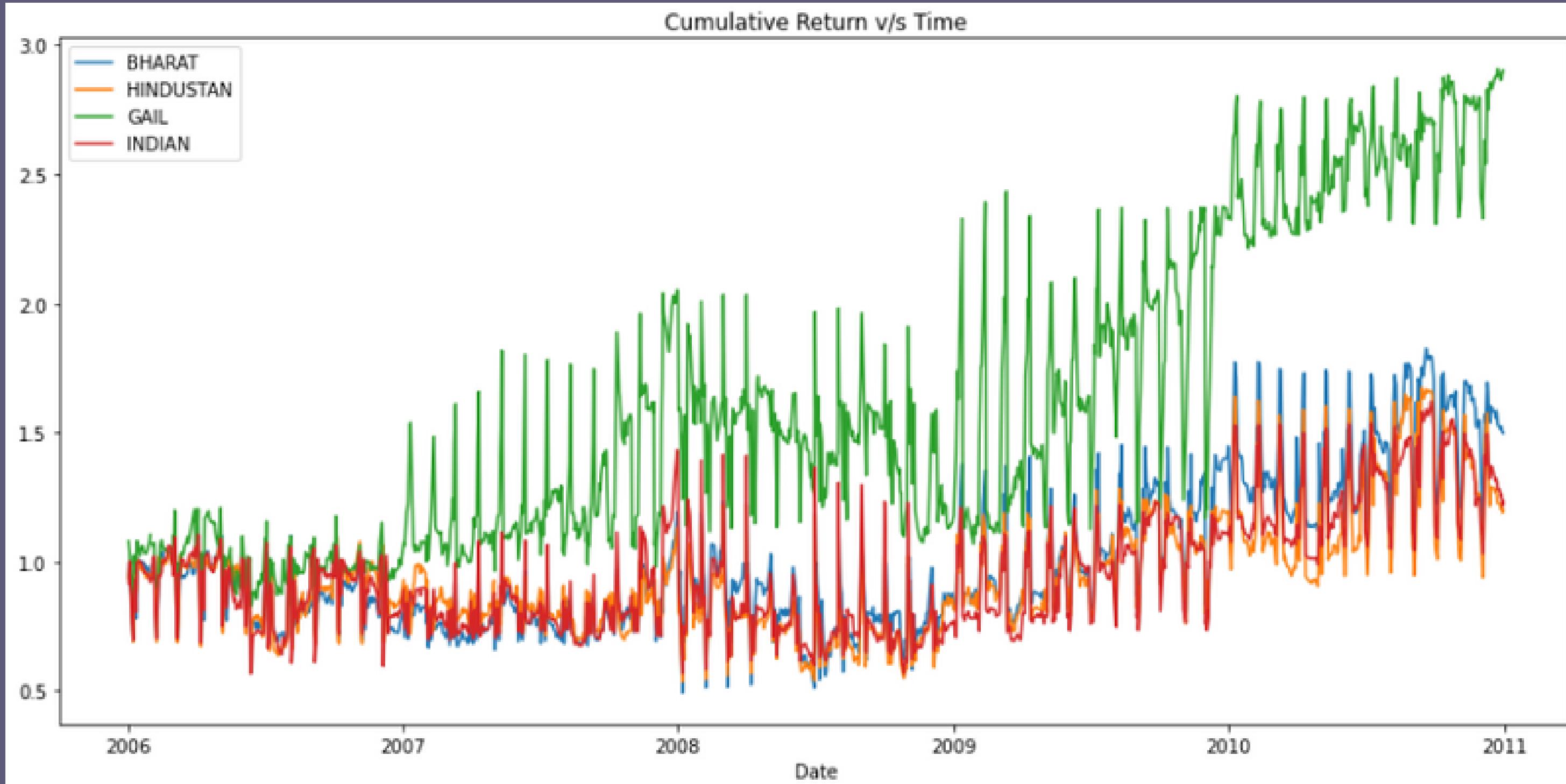
## Cummulative Return



# Oil and Gas

INDIA

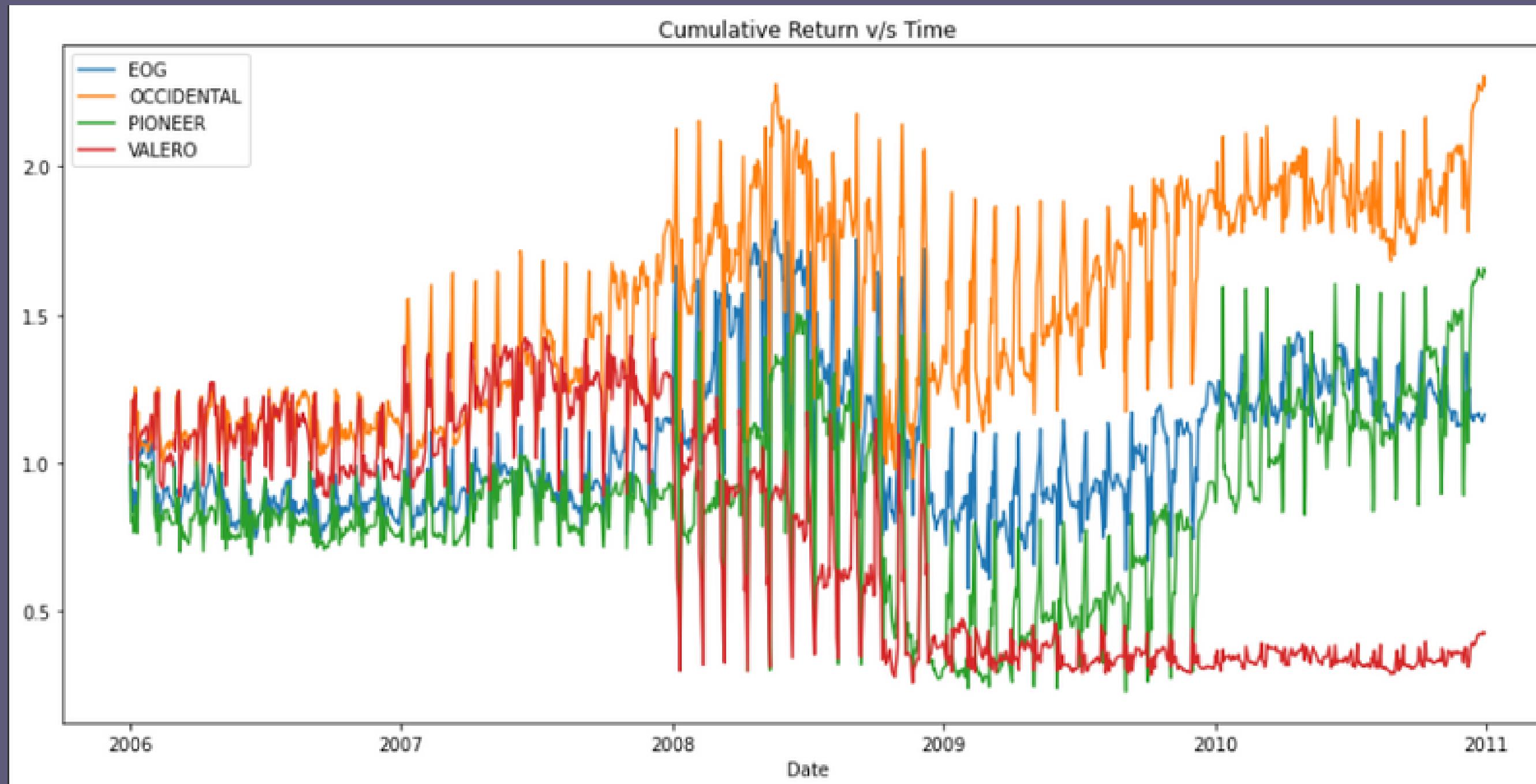
## Cummulative Return



# Oil and Gas

USA

## Cummulative Return



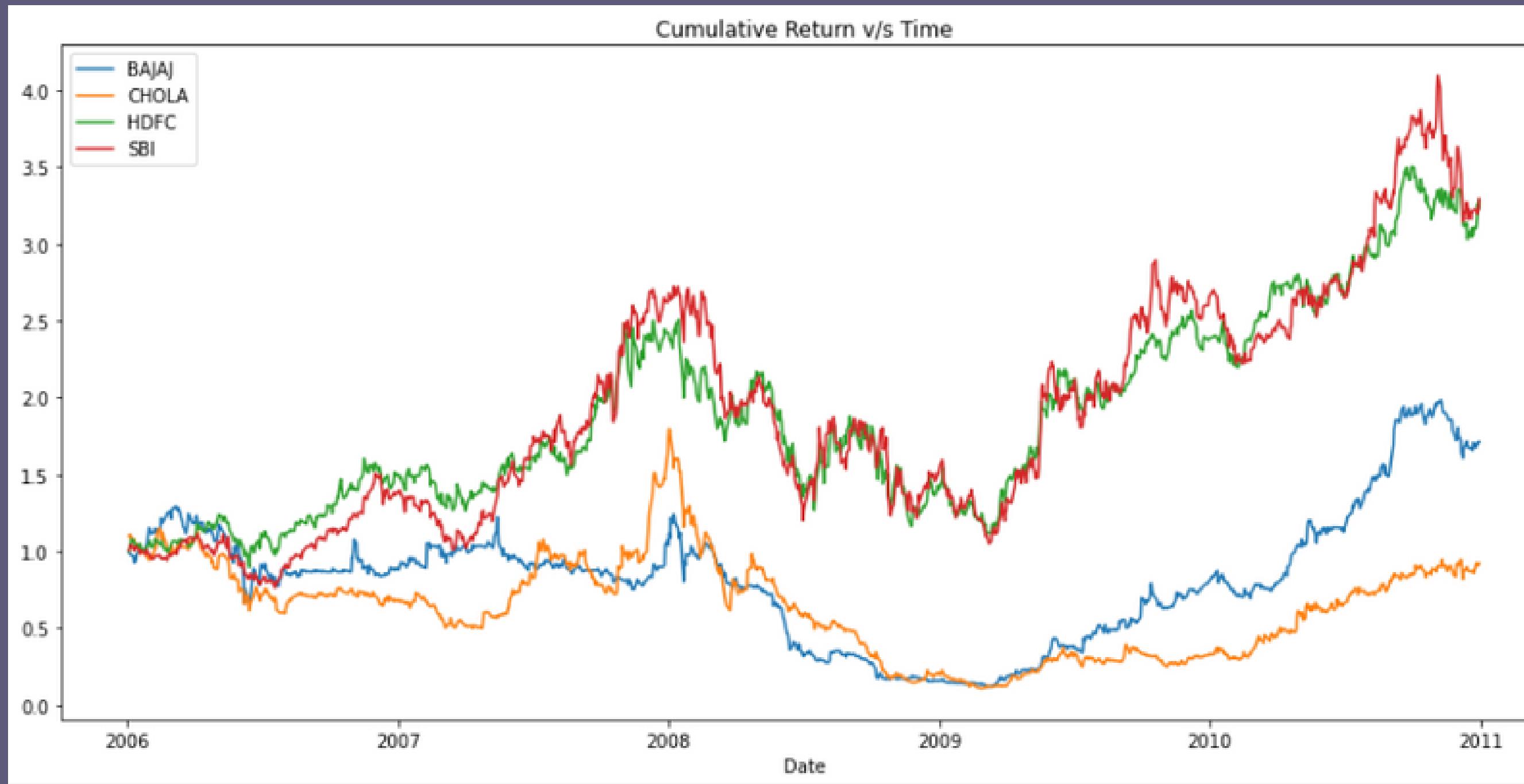
# Finance

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INDIA

## Cummulative Return

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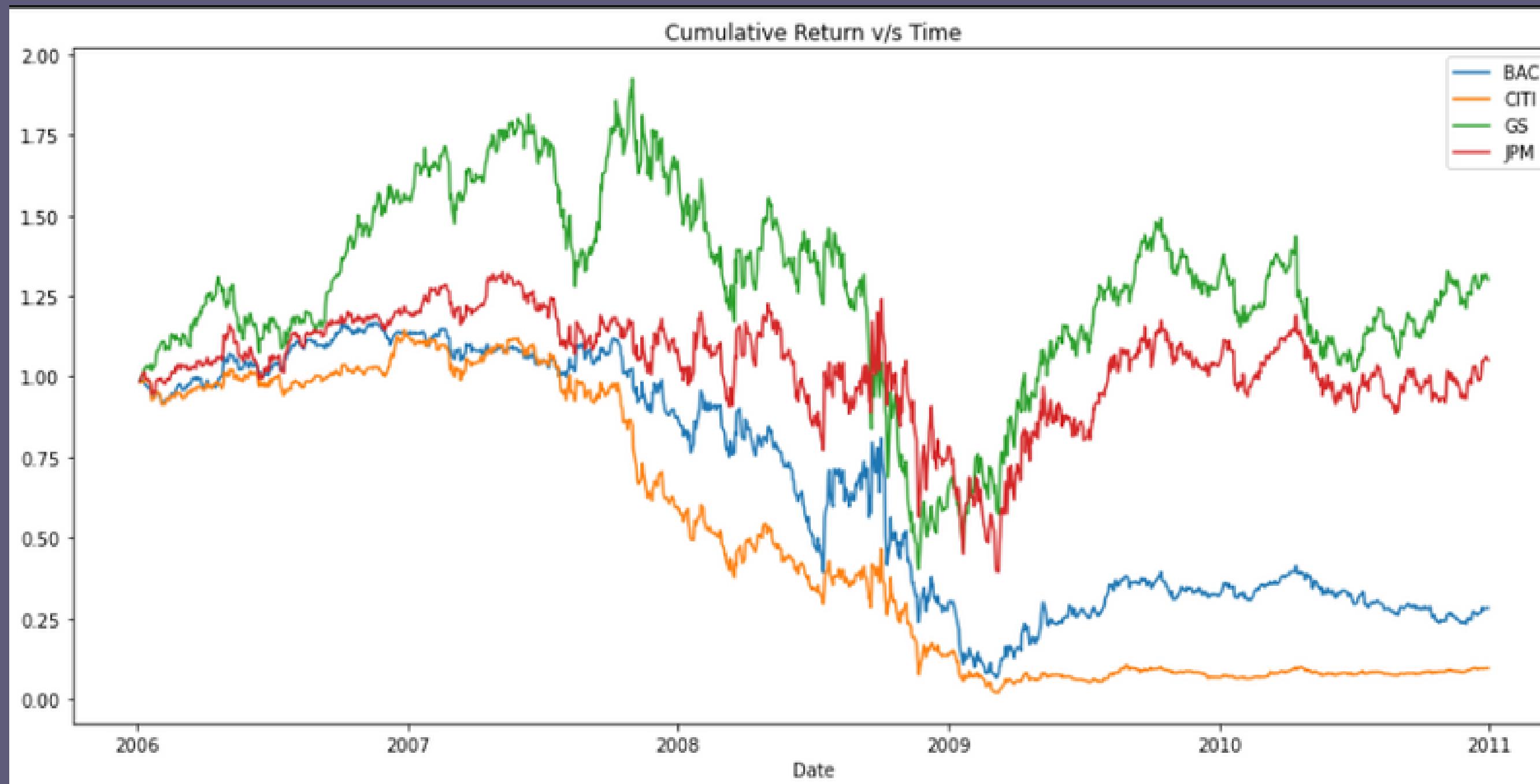
# Finance

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USA

# Cummulative Return

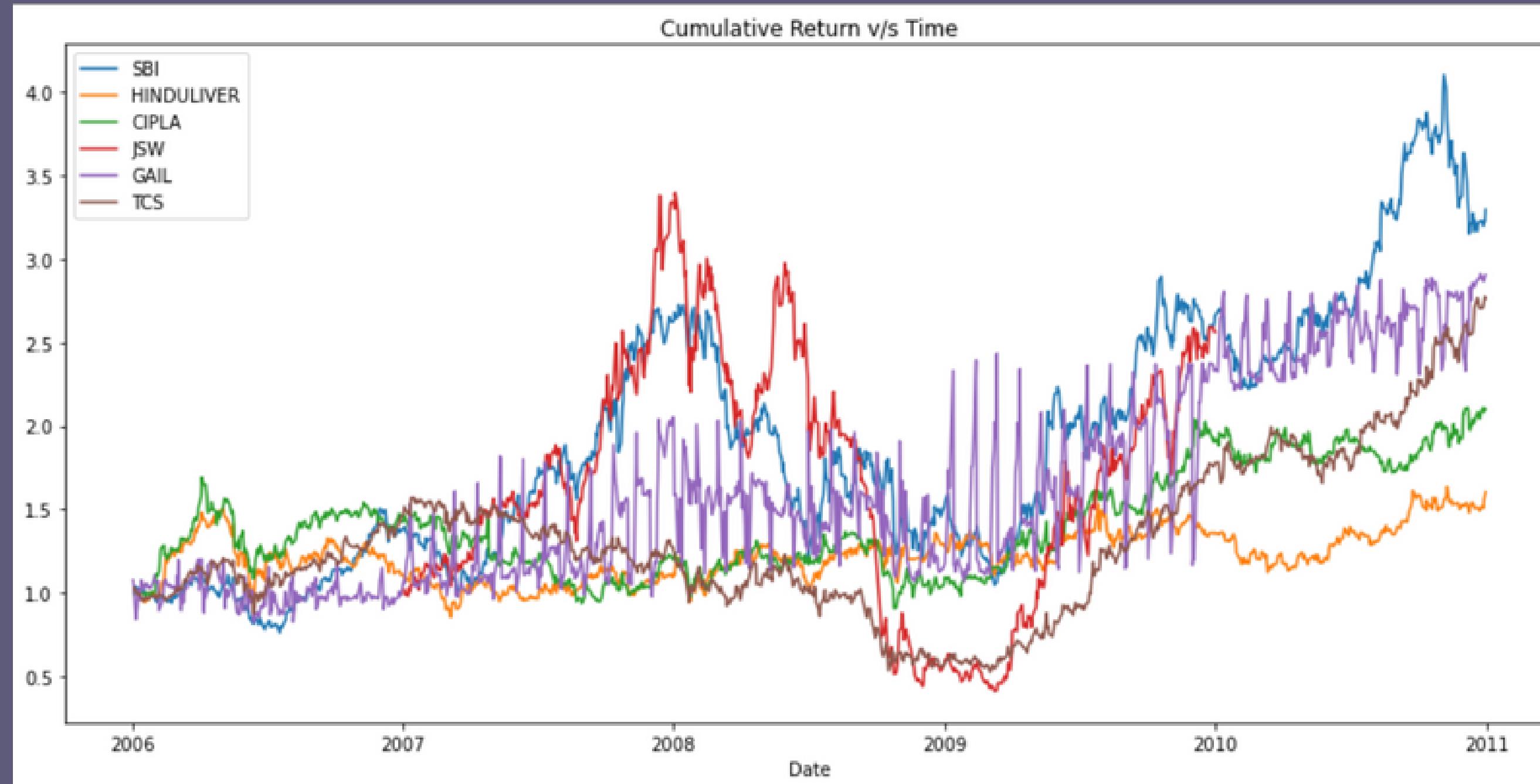
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INDIA

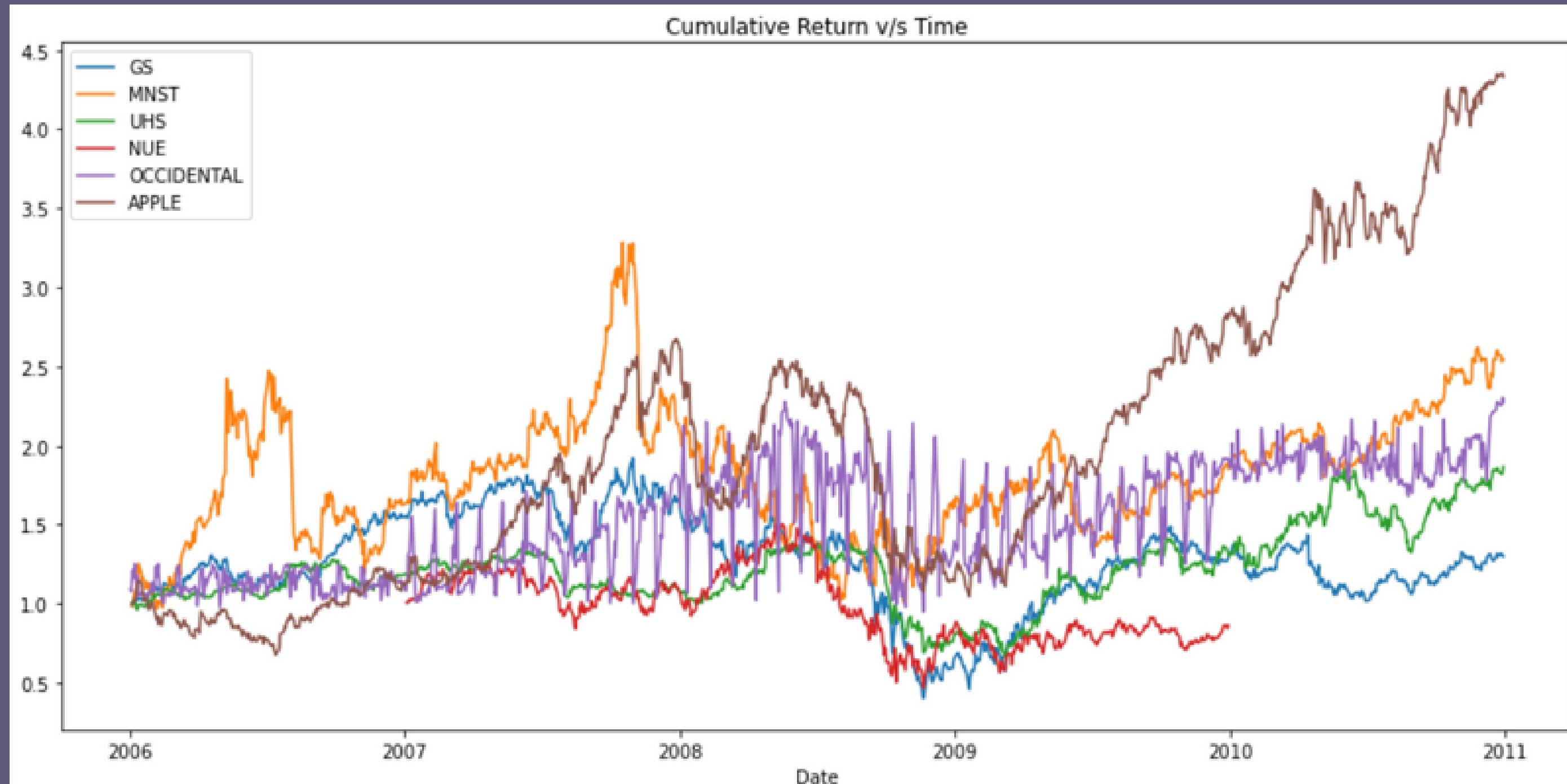
# Cummulative Return

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USA

# Cummulative Return



*Thank  
You*