Impact of Covid 19 on Indian Stock Market

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***Abstract* - This research is based on covid impact on India's stock market . It shows the impact of covid on the nifty 50 companies of Indian stock market . The data is taken of past one year from the day covid impacted on the Indian markets and one year during the covid impact. It shows the impact on stock prices of each of the nifty 50 companies . This is the comparison between the pre covid times and post covid times, and data is analysed on that basis.**

***Index Terms* - Covid 19, Stock market, Nifty50.**

1.INTRODUCTION

Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus.

HOW IT SPREADS?
The virus that causes COVID-19 is mainly transmitted through droplets generated when an infected person coughs, sneezes, or exhales. These droplets are too heavy to hang in the air, and quickly fall on floors or surfaces.
You can be infected by breathing in the virus if you are within close proximity of someone who has COVID-19, or by touching a contaminated surface and then your eyes, nose or mouth.

The COVID-19 pandemic in India!
The COVID-19 pandemic in India is part of the worldwide pandemic of coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The first case of COVID-19 in India, which originated from China, was reported on 30 January 2020.
On 22 March, India observed a 14-hour voluntary public curfew at the insistence of Prime Minister Narendra Modi. It was followed by mandatory lockdowns in COVID-19 hotspots and all major cities. Further, on 24 March, the prime minister ordered a nationwide lockdown for 21 days, affecting the entire 1.3 billion-person population of India.

2. METHODOLOGY

Sample size
My research methodology is based on the comparison of data of 2019 and 2020 nifty 50 companies. The data is of 24 months.

TOOLS
We have used different newspapers, articles, etc as a tool to collect the data, And performed correlation and graphical representation in M S excel.

CORRELATION
Correlation is used to test the relationships between quantitative variables or categorical variables. In other words, it's a measure of how things are related. The study of how variables are correlated is called correlation.

SOURCE
We have used different newspapers, articles, etc as a tool to collect the data. We have used secondary data for `collecting data regarding covid-19 impact on Indian financial market.

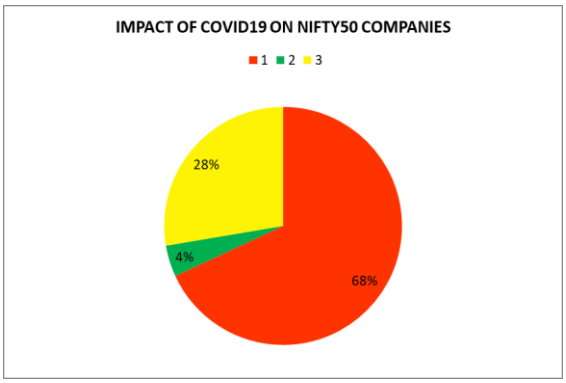
HYPOTHESIS
We have taken closing price of each day of nifty 50 companies and performed correlation of 2019 and 2020 data.
This data is showing the correlation of all the 50 companies.

COMPANY NAME	CORRELATION
ITC	-0.03093445
HUL	-0.01071983
NESTLE	0.280988145
ADANI PORTS	-0.156238591
RELIANCE	0.144736315
SBI	-0.361438857
ICICI BANK	0.001476972

WIPRO	-0.433747528
BAJAJ AUTO	-0.083007677
EICHER MOTORS	-0.152799628
HDFC BANK	-0.62991819
HERO MOTOR CORP LTD	-0.304414567
INDUSIND BANK	-0.014182342
INFOSYS	0.029223993
KOTAK BANK	0.072237283
MAHINDRA & MAHINDRA	-0.676235776
MARUTI SUZUKI	0.17826548
TATA MOTORS	-0.223171131
TECH MAHINDRA	-0.039923473
TCS	0.111000792
BPCL	-0.393076206
GAIL (INDIA) LTD	0.102430959
Indian Oil Corporation Ltd.	-0.310663876
ONGC	-0.059527126
CIPLA	-0.629426156
Dr. Reddy's Laboratories Ltd.	0.303227915
SUNPHARMA	-0.422254107
Axis Bank Ltd.	-0.420660562
Bajaj Finance Ltd.	0.013497486
Bajaj Finserv Ltd.	-0.324619204
HDFC LIFE INSURANCE LTD	0.55071049
HOUSING DEV.FIN.COR.LTD.	0.049394528
Asian Paints Ltd.	0.825474703
Britannia Industries Ltd.	-0.361344612
Titan Company Ltd.	-0.107286681
UltraTech Cement Ltd.	-0.405164514
Grasim Industries Ltd.	-0.595951934
HCL Technologies Ltd.	-0.307831613
Hindalco Industries Ltd.	-0.050250847
JSW Steel Ltd.	-0.486543468
Tata Steel Ltd.	-0.378990605
Coal India Ltd.	0.290099103
Bharti Airtel Ltd.	-0.240654675
UPL Ltd.	-0.385628799
POWER GRID COR.OF IND.LTD.	-0.262502116
NTPC Ltd.	0.495107842
Larsen & Toubro Ltd.	-0.523091888

3. MODELLING AND ANALYSIS

Graphical representation showing the analysis of covid impact on Indian stock market on nifty 50 shares.



4. RESULTS AND CONCLUSIONS

This graphical presentation is correlation of 2019 and 2020 data.

The correlation is positive for the 2 companies which is 4% of the data.

And 68% which is 32 companies of the total data are negatively impacted.

28% which is 13 companies of the overall data are showing weaker magnitude.

This analysis shows us that the most of the companies share prices were fallen and there are only few companies which were having rise in the share price while covid 19 impacted the indian economy, and all the businesses were having difficult times.

However this also gave the opportunity to the new trading players to enter the market.

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INDIAN MARKET

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