

STOCK PRICE EVALUATION AND PREDICTION OF IPO PERFORMANCE USING WITH PYTHON

***Dr. Subbaiah Borugada**

Assistant Professor
Department of Commerce and Management studies
Andhra University, Visakhapatnam

**** Dr. KORAPU SATTIBABU.**

Asst. Professor,
Department of Business Administration,
Prasad V Potluri Siddhartha Institute of Technology Vijayawada-AP
Gmail:ksbvsm@gmail.com Phone: 9491444832

*****Dr. Anil Kumar Gorantla**

Associate Professor, Department of Business Administration,
Tirumala Engineering
College, Narasaraopet

Abstract

An initial public offering (IPO) is the process by which a private company becomes public by selling its stock to the general public. It could be a new, young or elderly company that decides to list on an exchange and so goes public. Investing in an IPO is a dangerous business because there is very little historical data available for analyzing the equities, making it difficult to forecast how the stock will perform on the day of listing as well as in the long run. As a result of our findings, an attempt has been made to assist the investor class in projecting the likelihood of an investor making money in an IPO issue. The study investigates the performance of Indian IPOs, focusing on predicting future prices of selected Indian IPOs listed on the NSE.

Introduction

Individual and institutional investors use stock markets to buy and sell shares in a public setting. An IPO is when a company first lists its stock on a stock exchange. Investors buy those shares, allowing the corporation to raise funds for expansion.

An initial public offering (IPO) is the process of selling new stock to the public. An IPO allows a firm to raise funds from the public. The move from a private to a public firm often entails a share premium for current private investors. It also permits public investors to participate. To hold an IPO, companies must meet exchange and SEC standards. Investment banks help companies market, measure demand, determine IPO price and date. Investors should exercise caution when investing in IPOs, as they can be riskier than initially thought.

An investor puts money into the stock market to profit. Stock market analysis allows investors to identify a security's inherent value before investing. Investing and trading decisions are taken by analysing historical and current stock price data. Stock analysis includes both fundamental and technical analysis. The fundamental stock analysis method evaluates a company's financial health. Investors utilise fundamental analysis to assess a company's current and future value.

The analyst just analyses the trend in the share prices. The basic idea is that market prices reflect supply and demand for stock, which reflects the company's value. This technique likewise believes past price trends predict future performance. Technical analysis is the study of past stock prices to forecast future trends. It indicates the share price movement direction. Technical analysis helps predict if the share price will climb or fall sharply. It is not based on recent news or events that have already influenced the share price. Because stock prices are affected by investor emotions, technical analysis helps the investor by predicting the stock price trends. It will safeguard investors from future losses. Technical analysis only works for equities in strong demand and traded in large volumes.

Technical analysis studies the price movement of stocks using bar and candlestick charts. Short-term traders use daily charts to track price changes. Weekly/monthly charts are utilised by medium/long term traders to assess their long-term earning potential.

Time series forecasting is one of the best tools for trend analysis and future prediction. Predicting share prices will show the price growth or decline. Compare the share prices of different firms to see which one performs the best.

NSE:

The NSE brand has stood for reliability, experience, innovation, and trust for over 25 years. Since 1990, India's economy and technology scene have evolved tremendously. NSE, too. The NSE's new logo reflects its multi-faceted nature: exchange, regulator, index provider, data and analytics, IT services, educator, and market development.

The new identity represents growth with a modern flower growing. The variety of colours reflects the business's facets. Its red colour symbolises NSE's solid foundation, while its yellow and orange hues evoke the marigold, a symbol of prosperity and good fortune, and the blue triangle represents NSE's true North.

Sharp edges suggest precision and efficiency. The form echoes NSE's collaborative heritage. This is NSE's DNA, constantly pushing boundaries.

Types of IPOs

IPOs fall into two categories. A company's stock price rises when investors buy it.

Fixed Price Issue

In a Fixed Price Issue, the company and underwriters evaluate the price of the offers. They assess the firm's assets, liabilities, and financial health. They use these numbers to set a price for their goods. Each factor's value is weighed before deciding on a final price. The fixed price issue may be undervalued during the IPO. The pricing is usually below market value. In the end, investors value the company more highly when it has a fixed price affecting Book Sales

Book building

A book building issue is a relatively new notion in India. A book building issue has a price band or range, not a fixed price. The lowest and highest prices are called the floor and cap prices. You can bid for the shares at your desired price. The stock price is then set after assessing the bids. Each day as the book builds, the share demand is known. An IPO might be a fixed price issue, a book building issue, or both.

Between Fixed Price and Book Building issues: On the first day of trading, the share's price is fixed in fixed price issues and printed in order documents, however in book building issues, only the price band is fixed initially, not the exact price. The exact share price is set only after the bid deadline.

Demand In a fixed price issue, demand is recognised only after the issue closes, whereas in a book building issue, demand is known daily. Paying for a share in a fixed-price issue requires 100% payment up front, however with a book building issue, payment can be made later.

Need for Study:

Predictive analytics uses data analytics to generate predictions. Forecasting employs previous data. A significant trend is captured by a mathematical model built on past data. Using current data, the predictive model predicts what will happen next or suggests actions to do for best results.

Scope for study:

India's stock market is booming. Stock market prediction seeks to forecast future stock value movement on a financial exchange. Accurate share price forecasting means more profit for investors.

OBJECTIVES

The goal of this study is to predict the stock market, which helps investors make investment decisions. The study's goals are as follows:

1. To track the NSE performance of chosen IPOs.
2. Predict future prices of chosen Indian IPOs.
3. Compare the selected firms' returns.
4. To advise investors on how to reduce risk and maximise returns.
5. Prediction of share prices will show price rise or decline.

METHODOLOGY

Data Source

Secondary research, often known as desk research, uses existing data. Existing data is summarised and compiled to improve research efficiency. For example, you can find secondary research in research papers and related materials. Public libraries, Money Control and Yahoo Finance can make these documents available. Data from previously completed surveys etc. Some government and non-government organisations also preserve data that can be utilised for study.

Instead of collecting data directly from organisations or enterprises, secondary research utilises data already obtained by other parties. One of the reasons why many firms and organisations choose secondary research is its low cost. Not every organisation can afford to pay for research and data collection.

Analytical Study

The approach describes the data collection process. In 2019, a study was conducted in the NSE Companies Register to achieve the above objectives. The data for this study came from secondary sources such as Yahoo Finance and the NSE. 3 years of data (2019-2022). From NSE, the list of 2019 registered firms is collected and then the return on investment (ROI) for all active trading companies is calculated, ignoring non-active or withdrawal companies. The highest, middle, and lowest ranked firms are chosen to undertake the predictive analysis for forecasting the stock price.

Data analysis models

Return on investment (ROI) is a performance metric used to assess an investment's efficiency or profitability. ROI attempts to directly evaluate an investment's return relative to its cost. The profit (or return) of an investment is divided by the investment's cost. The return on investment (ROI) is stated as a percentage: Return on Investment (ROI) is a prominent profitability indicator. ROI is computed by dividing an investment's net profit (or loss) by its beginning cost. ROI can be used to compare investments in different projects or assets. Because ROI does not account for time or holding duration, it may overlook opportunity costs.

LSTM(Long Short-Term Memory) model.

Limitations

1. The theory states that stock prices cannot be predicted because changes in stock prices are random.
2. Prediction accuracy ranges from (65%-95%) not 100%.
3. The study is confined to the NSE only.
4. The forecast is based on past price data.
5. Predicting the stock market's movement is difficult due to several variables such as interest rates, politics, and economic growth.

RESULTS AND ANALYSIS**Listed Companies in NSE(2019)****Table 1**

S.No	Company Name	Listing Date	Issue Price (Rs)	ListingDay - Close Price (Rs)	Listing Day Gain / Loss (%)
1	Prince Pipes and Fittings Ltd	Dec 30, 2019	178	166.6	-6.4
2	Ujjivan Small Finance Bank Ltd	Dec 12, 2019	37	55.9	51.08
3	CSB Bank Limited	Dec 04, 2019	195	300.1	53.9
4	IRCTC Limited	Oct 14, 2019	320	728.6	127.69
5	Vishwaraj Sugar Industries Ltd	Oct 15, 2019	60	60.35	0.58
6	Sterling and Wilson Solar Ltd	Aug 20, 2019	780	725.35	-7.01
7	Spandana Sphoorty Financial Ltd	Aug 19, 2019	856	848.4	-0.89
8	Affle (India) Limited	Aug 08, 2019	745	875.1	17.46
9	IndiaMART InterMESH Limited	Jul 04, 2019	973	1302.55	33.87
10	Neogen Chemicals Limited	May 08, 2019	215	263.55	22.58
11	Rail Vikas Nigam Limited	Apr 11, 2019	19	19.05	0.26
12	Polycab India Limited	Apr 16, 2019	538	655	21.75
13	Metropolis Healthcare Limited	Apr 15, 2019	880	959.55	9.04
14	Xelpmoc Design and Tech Limited	Feb 04, 2019	66	59.85	-9.32

15	Chalet Hotels Limited	Feb 07, 2019	280	290.4	3.71
16	Embassy Office Parks	Apr 01, 2019	300	314.1	4.7
17	MSTC Limited	Mar 29, 2019	120	114.2	-4.83

The Table **shows** the returns of selected companies in the listing day out of 17 companies 5 companies are giving negative returns and remaining companies are giving positive returns IRCTC Ltd has given higher listing day returns (127.69) when companies move negative returns that is Xelpmoc Design and Tech Limited (-9.32) From the analysis of data it was identified that the iPo's are under priced because Atleast avg returns of selected stock are 19.46 in the initial day of listing

Table 2**Year return(2019-2020)**

S.No	Company Name	Listing Date	Issue Price (Rs (1 yr 2020	ROI	Rank	
1	Prince Pipes and Fittings Ltd	Dec 30, 2019	178	298.9	67.92135	3
2	Ujjivan Small Finance Bank Ltd	Dec 12, 2019	37	39.05	5.540541	8
3	CSB Bank Limited	Dec 04, 2019	195	226	15.89744	7
4	IRCTC Limited	Oct 14, 2019	320	270	-15.625	11
5	Vishwaraj Sugar Industries Ltd	Oct 15, 2019	60	22.17	-63.05	14
6	Sterling and Wilson Solar Ltd	Aug 20, 2019	780	249.5	-68.0128	15
7	Spandana Sphoorty Financial Ltd	Aug 19, 2019	856	585	-31.6589	12
8	Affle (India) Limited	Aug 08, 2019	745	365	-51.0067	13
9	IndiaMART InterMESH Limited	Jul 04, 2019	973	2125	118.3967	1
10	Neogen Chemicals Limited	May 08, 2019	215	448	108.3721	2
11	Rail Vikas Nigam Limited	Apr 11, 2019	19	19.25	1.315789	9
12	Polycab India Limited	Apr 16, 2019	538	731.1	35.89219	5
13	Metropolis Healthcare Limited	Apr 15, 2019	880	1220	38.63636	4
14	Xelpmoc Design and Tech Limited	Feb 04, 2019	66	61.5	-6.81818	10
15	Chalet Hotels Limited	Feb 07, 2019	280	342	22.14286	6

Table 2 shows the data of the companies which are listed in year of 2019. It is to identify the Return of Investment of each company from the register day to the next year which is 2020 the prices are shown in the table are collected from NSE and based on the analysis of the companies which is giving highest return is IndiaMART InterMESH Limited(118.3967) and the companies which is giving the lowest return is Sterling and Wilson Solar Ltd (-68.0128) and the company which is giving the average return is the Ujjivan Small Finance Bank Ltd (5.540541).

Table 3**Year return (2019-2021)**

S.No	Company Name	Listing Date	Issue Price (Rs)	2nd yr 2021	ROI	Rank
1	Prince Pipes and Fittings Ltd	Dec 30, 2019	178	702.4	294.6067416	4
2	Ujjivan Small Finance Bank Ltd	Dec 12, 2019	37	19.45	-47.43243243	14
3	CSB Bank Limited	Dec 04, 2019	195	269	37.94871795	9
4	IRCTC Limited	Oct 14, 2019	320	1000.8	212.75	5
5	Vishwaraj Sugar Industries Ltd	Oct 15, 2019	60	31.8	-47	13
6	Sterling and Wilson Solar Ltd	Aug 20, 2019	780	273.55	-64.92948718	15
7	Spandana Sphoorty Financial Ltd	Aug 19, 2019	856	649.9	-24.0771028	11
8	Affle (India) Limited	Aug 08, 2019	745	844.84	13.40134228	10
9	IndiaMART InterMESH Limited	Jul 04, 2019	973	7337.65	654.1264132	1
10	Neogen Chemicals Limited	May 08, 2019	215	915	325.5813953	3
11	Rail Vikas Nigam Limited	Apr 11, 2019	19	28.4	49.47368421	8
12	Polycab India Limited	Apr 16, 2019	538	1410	162.0817844	7
13	Metropolis Healthcare Limited	Apr 15, 2019	880	2380	170.4545455	6
14	Xelpmoc Design and Tech Limited	Feb 04, 2019	66	295.55	347.8030303	2
15	Chalet Hotels Limited	Feb 07, 2019	280	180.95	-35.375	12

Table 3 shows the data of the companies which are listed in year of 2019. It is to identify the Return of Investment of each company from the register day to the next year which is 2021 the prices are shown in the table are collected from NSE and based on the analysis of the companies which is giving highest return is India MART Inter MESH Limited (654.1264132) and the companies which is giving the lowest return is Sterling and Wilson Solar Ltd (-64.92948718) and the company which is giving the average return is the Rail Vikas Nigam Limited (49.47368421).

Table 4**Year Return (2020-2021)**

S.No	Company Name	Listing Date	(1 yr) 2020	2nd yr 2021	ROI	Rank
1	Prince Pipes and Fittings Ltd	Dec 30, 2019	298.9	702.4	134.995	4
2	Ujjivan Small Finance Bank Ltd	Dec 12, 2019	39.05	19.45	-50.1921	15
3	CSB Bank Limited	Dec 04, 2019	226	269	19.02655	11
4	IRCTC Limited	Oct 14, 2019	270	1000.8	270.6667	2
5	Vishwaraj Sugar Industries Ltd	Oct 15, 2019	22.17	31.8	43.43708	10
6	Sterling and Wilson Solar Ltd	Aug 20, 2019	249.5	273.55	9.639279	13
7	Spandana Sphoorty Financial Ltd	Aug 19, 2019	585	649.9	11.09402	12
8	Affle (India) Limited	Aug 08, 2019	365	844.84	131.463	5
9	IndiaMART InterMESH Limited	Jul 04, 2019	2125	7337.65	245.3012	3
10	Neogen Chemicals Limited	May 08, 2019	448	915	104.2411	6
11	Rail Vikas Nigam Limited	Apr 11, 2019	19.25	28.4	47.53247	9
12	Polycab India Limited	Apr 16, 2019	731.1	1410	92.86007	8
13	Metropolis Healthcare Limited	Apr 15, 2019	1220	2380	95.08197	7
14	Xelpmoc Design and Tech Limited	Feb 04, 2019	61.5	295.55	380.5691	1
15	Chalet Hotels Limited	Feb 07, 2019	342	180.95	-47.0906	14

Table 4 shows the data of the companies which are listed in year of 2019. It is to identify the Return of Investment of each company from the register day to the next year which is up to 2022 the prices are shown in the table are collected from NSE and based on the analysis of the companies which is giving highest return is Xelpmoc Design and Tech Limited (380.05691) and the companies which is giving the lowest return is Ujjivan Small Finance Bank Ltd (-50.1921) and the company which is giving the average return is the Polycab India Limited (92.86007).

Table 5**Year (2021-2022)**

S.No	Company Name	Listing Date	2nd yr 2021	3rd yr 2022	ROI	Rank
1	Prince Pipes and Fittings Ltd	Dec 30, 2019	702.4	688.4	-1.99317	9
2	Ujjivan Small Finance Bank Ltd	Dec 12, 2019	19.45	17.55	-9.76864	10
3	CSB Bank Limited	Dec 04, 2019	269	219.95	-18.2342	11
4	IRCTC Limited	Oct 14, 2019	1000.8	768.5	-23.2114	12
5	Vishwaraj Sugar Industries Ltd	Oct 15, 2019	31.8	21.55	-32.2327	14
6	Sterling and Wilson Solar Ltd	Aug 20, 2019	273.55	378.05	38.20143	5
7	Spandana Sphoorty Financial Ltd	Aug 19, 2019	649.9	441.25	-32.1049	13
8	Affle (India) Limited	Aug 08, 2019	844.84	1,228.00	45.35297	3
9	IndiaMART InterMESH Limited	Jul 04, 2019	7337.65	4,860.00	-33.7663	15
10	Neogen Chemicals Limited	May 08, 2019	915	1,561.00	70.60109	2
11	Rail Vikas Nigam Limited	Apr 11, 2019	28.4	34.45	21.30282	7
12	Polycab India Limited	Apr 16, 2019	1410	2,575	82.62411	1
13	Metropolis Healthcare Limited	Apr 15, 2019	2380	2,430.00	2.10084	8
14	Xelpmoc Design and Tech Limited	Feb 04, 2019	295.55	369.6	25.05498	6
15	Chalet Hotels Limited	Feb 07, 2019	180.95	262	44.79138	4

Table 5 shows the data of the companies which are listed in year of 2019. It is to identify the Return of Investment of each company from the register day to the years (2021- 2022) the prices are shown in the table are collected from NSE and based on the analysis of the companies which is giving highest return is Poly cab India Limited (82.62411). and the companies which is giving the lowest return is India MART Inter MESH Limited (-33.7663) and the company which is giving the average return is the Metropolis Healthcare Limited (2.10084).

Table 6**Year Return (2019-2022)**

S.No	Company Name	Listing Date	Issue Price (Rs)	3rd yr	ROI	Rank
1	Prince Pipes and Fittings Ltd	Dec 30, 2019	178	688.4	286.741573	5
2	Ujjivan Small Finance Bank Ltd	Dec 12, 2019	37	17.55	-52.56756757	14
3	CSB Bank Limited	Dec 04, 2019	195	219.95	12.79487179	10
4	IRCTC Limited	Oct 14, 2019	320	768.5	140.15625	7
5	Vishwaraj Sugar Industries Ltd	Oct 15, 2019	60	21.55	-64.08333333	15
6	Sterling and Wilson Solar Ltd	Aug 20, 2019	780	378.05	-51.53205128	13
7	Spandana Sphoorty Financial Ltd	Aug 19, 2019	856	441.25	-48.4521028	12
8	Affle (India) Limited	Aug 08, 2019	745	1,228.00	64.83221477	9
9	IndiaMART InterMESH Limited	Jul 04, 2019	973	4,860.00	399.4861254	3
10	Neogen Chemicals Limited	May 08, 2019	215	1,561.00	626.0465116	1
11	Rail Vikas Nigam Limited	Apr 11, 2019	19	34.45	81.31578947	8
12	Polycab India Limited	Apr 16, 2019	538	2,575	378.6245353	4
13	Metropolis Healthcare Limited	Apr 15, 2019	880	2,430.00	176.1363636	6
14	Xelpmoc Design and Tech Limited	Feb 04, 2019	66	369.6	460	2
15	Chalet Hotels Limited	Feb 07, 2019	280	262	-6.428571429	11

Inference:

Table 6 shows the data of the companies which are listed in year of 2019. It is to identify the Return of Investment of each company from the register day to the next year which is up to 2022 the prices are shown in the table are collected from NSE and based on the analysis of the companies which is giving highest return is Neogen Chemicals Limited(626.0465116) and the companies which is giving the lowest return is Vishwaraj Sugar Industries Ltd (-64.0833333) and the company which is giving the average return is the Rail Vikas Nigam Limited (81.31578947)

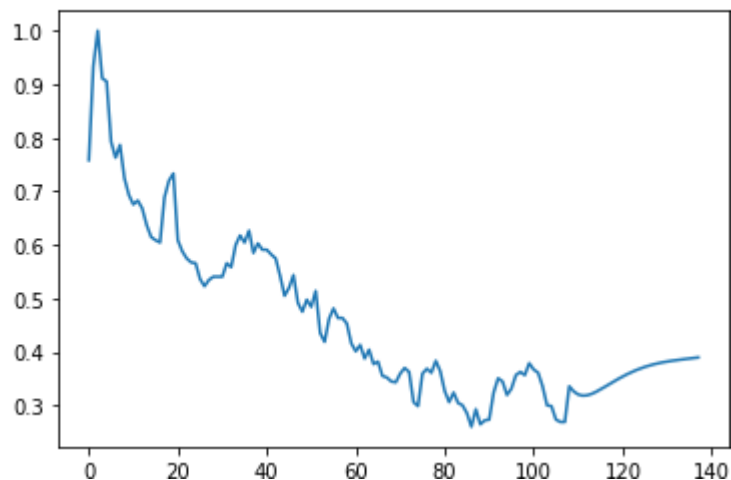
Introduction:

For predicting the future stock prices the study has considered 3 stocks namely sugar neo gas Companies the main reasons for selecting the companies based on their returns.the returns of selected companies are ranked 1to 15 and that out of 15 companies study selected 1,8 and 15 companies prices are predicting

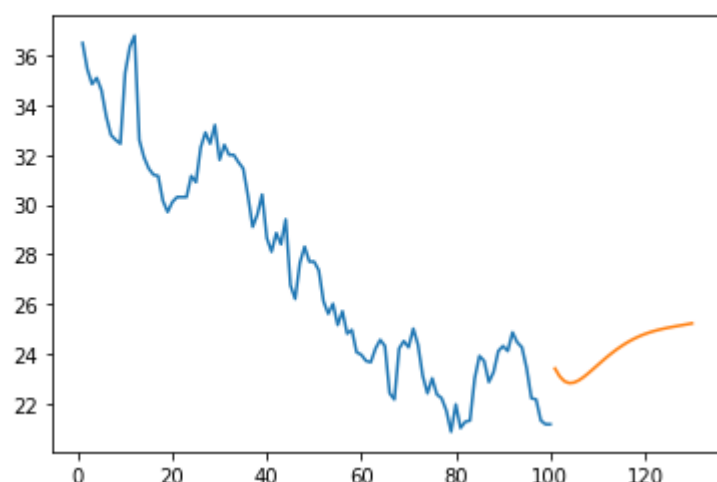
Vishwaraj Sugar Industries Ltd (Rank 15) out puts:

```
Out[4/]: array([[23.39600364],  
               [23.07285865],  
               [22.88098895],  
               [22.80842425],  
               [22.82899834],  
               [22.91517489],  
               [23.04358427],  
               [23.19653439],  
               [23.36157041],  
               [23.53029966],  
               [23.69720441],  
               [23.85865276],  
               [24.01221205],  
               [24.15620956],  
               [24.28950839],  
               [24.41138678],  
               [24.52149289],  
               [24.61982371],  
               [24.70672705],  
               [24.78284324],  
               [24.84910111],  
               [24.90664061],  
               [24.95676652],  
               [25.00087209],  
               [25.04037069],  
               [25.07665756],  
               [25.11102042],  
               [25.14462735],  
               [25.17846347],  
               [25.21335207]])
```

Out[59]: [`matplotlib.lines.Line2D` at 0x27fd8cd8880>]



Out[54]: [`matplotlib.lines.Line2D` at 0x27fd8b18c40>]

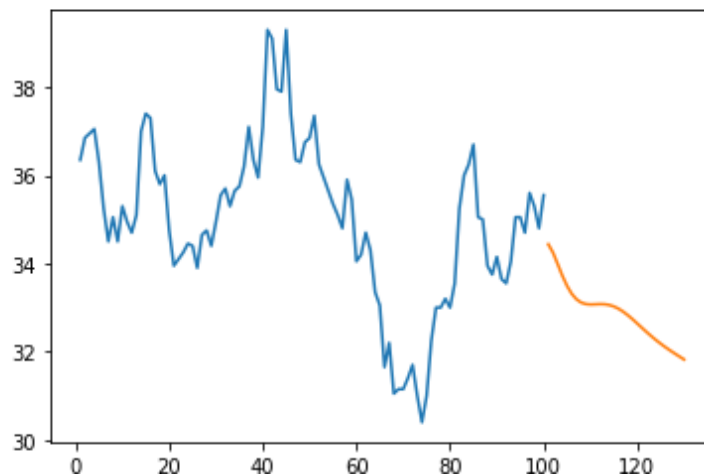


The Graph and table shows the next 30 days stock price prediction of sugar Ltd company has yielded 0.58 returns in initial day of listing 63.05 in one yr of holding period 47 in two years holding period 64.083 in three yrs of holding period based on the past data share prices are predicted by using python software using deep learning LSTM algorithm in next 30 days share prices are expected in case from 23.39 in day and on one day 25.21 in day 30th from analysis of the data it can conclude that the companies share prices can increase by 3 to 4 rs

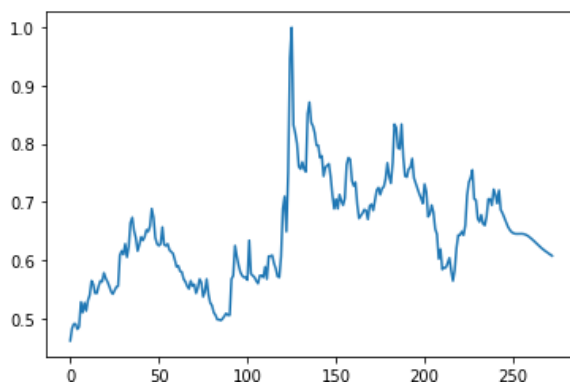
Rail Vikas Nigam Limited (Rank 8) out puts:

```
Out[40]: array([[34.43520991],  
              [34.2464174 ],  
              [33.98624435],  
              [33.72176699],  
              [33.49143252],  
              [33.31282851],  
              [33.18935505],  
              [33.11537617],  
              [33.08014588],  
              [33.0707296 ],  
              [33.07413364],  
              [33.07893831],  
              [33.0761154 ],  
              [33.05951083],  
              [33.02584466],  
              [32.97448062],  
              [32.90686856],  
              [32.82596734],  
              [32.73552572],  
              [32.63953677],  
              [32.54173352],  
              [32.44518314],  
              [32.35210575],  
              [32.26383698],  
              [32.18083383],  
              [32.10286977],  
              [32.02918441],  
              [31.95872186],  
              [31.89029623],  
              [31.82276691]])
```

```
Out[42]: [<matplotlib.lines.Line2D at 0x1d51bbb6d0>]
```



Out[48]: [`matplotlib.lines.Line2D` at `0x1d51c8644c0`]

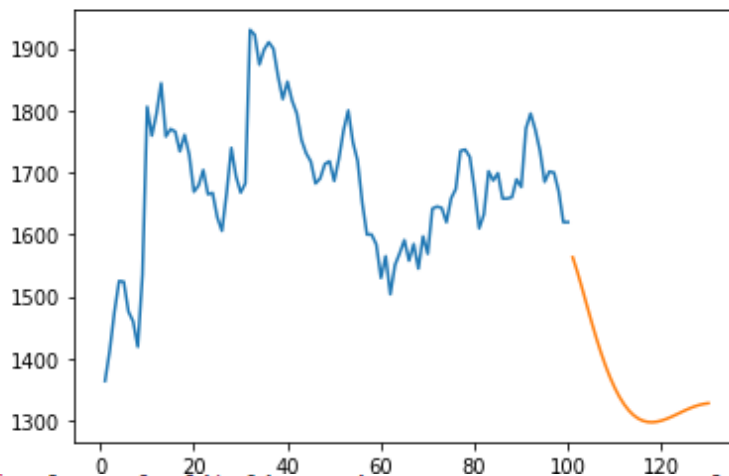


The Graph and table shows the next 30 days stock price prediction of sugar ltd company has yield 0.26 returns in intial day of listing 19 in one year of holding period 19.25 in two years holding period 28.4in three years 34.45 of holding period based on the past data share prices are predicted by using python software using deep learning LSTM algorithm in next 30 days share prices are expected in case from 34.43 in day and on one day 31.822 in day 30th from analysis of the data it can conclude that the companies share prices can Decrease by 3 to 4 rs.

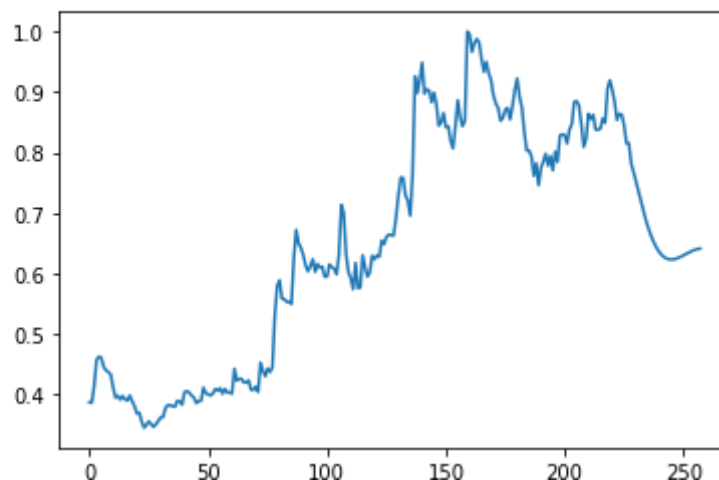
Neogen Chemicals Limited (Rank 1) outputs:

```
Out[42]: array([[1563.23181221],
 [1539.58294511],
 [1513.47583801],
 [1486.45250601],
 [1459.74391997],
 [1434.22278461],
 [1410.46316615],
 [1388.82203013],
 [1369.5019705 ],
 [1352.60173306],
 [1338.14292783],
 [1326.0895381 ],
 [1316.36092648],
 [1308.83633697],
 [1303.36610016],
 [1299.77253366],
 [1297.85864609],
 [1297.41123861],
 [1298.2069076 ],
 [1300.01754728],
 [1302.6114502 ],
 [1305.76331186],
 [1309.25303021],
 [1312.87400943],
 [1316.43406039],
 [1319.75800186],
 [1322.69296294],
 [1325.1079829 ],
 [1326.89631224],
 [1327.97701341]])
```

Out[44]: [`<matplotlib.lines.Line2D at 0x181996f1f30>`]



Out[45]: [`<matplotlib.lines.Line2D at 0x181996e1420>`]



The Graph and table shows the next 30 days stock price prediction of sugar ltd company has yielded 22.58 returns in initial day of listing 215 in one year of holding period 448 in two years holding period 915 in three years of holding period based on the past data share prices are predicted by using python software using deep learning LSTM algorithm in next 30 days share prices are expected in case from 1563.23 in day and on one day 1327.977 in day 30th from analysis of the data it can conclude that the companies share prices can decrease by 200 to 300 rs.

FINDINGS:

Major findings from survey are:

1. It is observed that there are of total 17 companies opted to IPO and the details of highest issued price ,highest listing day and percentage and gain /loss of particular company and after that the companies withdraw from the market.
2. IRCTC ltd has given higher listing day returns (127.69) on the listed day
3. The lowest return is the Xelpmoc Design and Tech Limited (-9.32).
4. Average returns of selected stock are 19.46 in the initial day of listing.
5. The companies which are listed in year of 2019 after one year of the investors investment which is giving highest return is IndiaMART InterMESH Limited(118.3967)
6. The companies which are listed in year of 2019 after one year of the investors investment and the companies which is giving the lowest return is Sterling and Wilson Solar Ltd (-68.0128)
7. The companies which are listed in year of 2019 after one year of the investors investment company which is giving the average return is the Ujjivan Small Finance Bank Ltd (5.540541).
8. The companies which are listed in year of 2019 after two year it is to identify the Return of Investment of each company from the register day to the next year which is 2021 the prices are shown in the table are collected from NSE and based on the analysis of the companies which is giving highest return is India MART Inter MESH Limited(654.1264132)
9. The companies which are listed in year of 2019 after two year and the companies which is giving the lowest return is Sterling and Wilson Solar Ltd (-64.92948718)
10. The companies which are listed in year of 2019 after two year and the company which is giving the average return is the Rail Vikas Nigam Limited (49.47368421).
11. The companies which are listed in year of it is to identify the Return of Investment of each company from the register day to the next year which is up to 2022 the prices are shown in the table are collected from NSE and based on the analysis of the companies which is giving highest return is Neogen Chemicals Limited(626.0465116)
12. The companies which are listed in year of it is to identify the Return of Investment of each company from the register day to the next year which is up to 2022 the prices and the companies which is giving the lowest return is Ujjivan Small Finance Bank Ltd (-50.1921) and the company which is giving the average return is the Polycab India Limited (92.86007).

13. It is observed that the Return of Investment of each company from the register day to the years(2021- 2022) the prices of companies which is giving highest return is Poly cab India Limited (82.62411).
14. It is observed that the Return of Investment of each company from the register day to the years(2021- 2022) the companies which is giving the lowest return is India MART Inter MESH Limited(-33.7663) and the company which is giving the average return is the Metropolis Healthcare Limited (2.10084).
15. Vishwaraj Sugar Industries company share prices are predicted by using python software using deep learning LSTM algorithm in next 30 days share prices are expected in case from 23.39 in day and on one day 25.21 in day 30th from analysis of the data it can conclude that the companies share prices can increase by 3 to 4 rs
16. Rail Vikas Nigam Limited company data share prices are predicted by using python software using deep learning LSTM algorithm in next 30 days share prices are expected in case from 34.43 in day and on one day 31.822 in day 30th from analysis of the data it can conclude that the companies share prices can Decrease by 3 to 4 rs.
17. Neogen Chemicals Limited company the past data share prices are predicted by using python software using deep learning LSTM algorithm in next 30 days share prices are expected in case from 1563.23 in day and on one day 1327.977 in day 30th from analysis of the data it can conclude that the companies share prices can decrease by 200 to 300 rs.

SUGGESTIONS:

1. IPO investments are equity investments. So, they have the potential to bring in big returns in the longterm. The corpus earned can help you to fulfil long-term financial goals like retirement or buying a house.
2. Based on the predicted values of Neogen Chemicals Limited company we can observe the downfall of prices from 1563.23 price on day 1 and the price on the 30th day is 1327.977 so the suggestion for the short term or the long term investor is to sale the shares.
3. Based on the predicted values of Vishwaraj Sugar Industries Ltd company we can observe the increase of prices from 23.39 price on day 1 and the price on the 30th day is 25.21 so the suggestion for the short term or the long term investor is to hold the share because of increase in

the values of prices.

4. Based on the predicted values of Rail Vikas Nigam Limited company we can observe the decrease of prices from 34.43 price on day 1 and the price on the 30th day is 31.822 so the suggestion for the short term or the long term investor is to sell the share because of a downward fall in the values of prices.
5. The suggestion is predicting the share prices will minimize risk and maximize the returns for the investor.
6. For the investors predicting the share prices will help to estimate the risk
7. Using the time series analysis can predict the future performance of companies based on their past performance.

CONCLUSION

Predictive analytics is the process of using data analytics to make predictions based on data. It uses historical data to predict future events. Typically, historical data is used to build a mathematical model that captures important trends. That predictive model is then used on current data to predict what will happen next, or to suggest actions to take for optimal outcomes and Stock market in India is growing rapidly. Prediction of Stock market aims to determine the future movement of the stock value of a financial exchange. The accurate prediction of share price movement will lead to more profit investors can make and based on the predicted prices of the chosen companies with reference to NSE the future trend of the prices is displayed which will help the investors to buy or sell the shares of the particular IPO's. By selling the shares on the right time will help the investors to minimize the risk and maximize the returns. Finally conclude that investing in the IPOs are the choice of investors where they can own the company equity and predictive analysis will help the investors to sell or hold the shares for long term or short term. Prediction of share prices will clearly visualize the growth or downfall of prices

According to the data presented above the Vishwaraj Sugar Industries Ltd predicted prices suggest the investor to hold because of an increase in the prices and for the Rail Vikas Limited and the Neogen Chemicals Limited there is a downward fall so that the investor take action and sell the shares so that the loss for the investor decrease.

Reference

1. Himanshu Puri (2012) “ An empirical investigation of short-run performance of IPOs in India” International journal of fiancail Management. Vol 2. Issue 2 April (2012).
2. K.Hema Divya (2013) “A study on performance of Indian IPO’s During the Financial year 2010-2011”. International Journal of marketing, Financial services & Management Research Vol.2, No.7, July (2013)
3. Garima Baluja(2013) “comparative Analysis of listing price Between Different Graded IPOs in India”. Pacific Business Review International. Vol.6, issue 5, November (2013)
4. . Sanjay Sehgal (2013) “ Valuation of IPOs in India - An empirical study” Business and Economics Research. Vol 3No.2 (2013)
5. Sri.Devarajappa.S AND Dr (smt).A.N.Tamragudi (2014) “Post issue Performance of IPO in India: An Empirical Study”. EPRA International Journal of Economic and Business Review Vol.-2 issue-8 (2014).
6. M. Muthu Gopalakrishnan and Paluri Hareesh : “Performance Analysis of Initial public offerings in Indian stock market” Indian Streams Research Journal, Volume 6, issue 6, July- (2016)
7. long Short-Term Memory Networks With Python: Develop Sequence Prediction Models with Deep Learning.
8. Predicting Equity Price with Corporate Action Events Using LSTM-RNN
9. <https://www.nseindia.com/>
10. <https://finance.yahoo.com/>
11. <https://rvnl.org/home>
12. <https://neogenchem.com/https://vsil.co.in/>