

Stocks Report

- Used pandas in python to import the excel file into a DataFrame. Then checked for any missing values and overall description of the dataset.
- From analysing, discovered that data is of 80 unique days with each day having 25 instances of 15 minutes each.
- Considered the low price while buying the stocks and the high price while selling them at the mentioned times, i.e., 9:30am and 3pm. Initial capital = 1,00,000.
- Maximum profit was: 12964.19999999975
Maximum loss was: -2962.4999999987776
Total capital in the end: 198913.199999999288
- A candle graph was also plotted with each day's open, close, high and low.



- After referencing few articles, the volume can be used to measure the market strength. If a stock with a high trading volume is rising, it means there is buying pressure, as investor demand pushes the stock to higher and higher prices. On the other hand, if the price of a stock with a high trading volume is falling, it means more investors are selling their shares.
- Python code is uploaded to GitHub and can be found from the link:
<https://github.com/aryankumar10/analysis-assignment>

- A table with each day's profit/loss is provided below:

	date	result
0	2022-01-03	Loss : -535.9499999999971
1	2022-01-04	Profit : 293.2500000005093
2	2022-01-05	Profit : 3674.550000000003
3	2022-01-06	Profit : 2354.1000000006024
4	2022-01-07	Profit : 1861.1999999992695
5	2022-01-10	Profit : 967.75
6	2022-01-11	Profit : 3264.300000000003
7	2022-01-12	Profit : 1556.0999999999913
8	2022-01-13	Profit : 4389.0
9	2022-01-14	Profit : 79.19999999999709
10	2022-01-17	Profit : 1762.1999999992258
11	2022-01-18	Loss : -1157.1000000008353
12	2022-01-19	Profit : 4261.200000000812
13	2022-01-20	Loss : -2620.000000000873
14	2022-01-21	Loss : -222.75
15	2022-01-24	Profit : 4580.000000000844
16	2022-01-25	Profit : 6110.399999999994
17	2022-01-27	Profit : 749.2500000008149
18	2022-01-28	Loss : -2794.499999999185
19	2022-01-31	Loss : -1246.2000000009284
20	2022-02-01	Profit : 478.7999999991007
21	2022-02-02	Profit : 680.0
22	2022-02-03	Profit : 2120.0000000009313
23	2022-02-04	Loss : -1864.6500000008236
24	2022-02-07	Loss : -19.999999999054126
25	2022-02-08	Loss : -855.6999999999971
26	2022-02-09	Loss : -79.39999999999418
27	2022-02-10	Profit : 1343.3500000000058
28	2022-02-11	Loss : -2520.950000000812
29	2022-02-14	Profit : 877.1999999991676
30	2022-02-15	Profit : 5582.849999999162
31	2022-02-16	Loss : -347.6500000000233
32	2022-02-17	Profit : 410.9999999992433
33	2022-02-18	Profit : 583.7999999999884
34	2022-02-21	Profit : 1473.1499999999942
35	2022-02-22	Profit : 1439.75
36	2022-02-23	Profit : 1090.0
37	2022-02-24	Loss : -1610.0
38	2022-02-25	Profit : 3322.19999999988475

39	2022-02-28	Profit : 2731.6999999994296
40	2022-03-02	Loss : -2962.4999999987776
41	2022-03-03	Loss : -2903.6000000001228
42	2022-03-04	Profit : 1503.0
43	2022-03-07	Loss : -2606.8000000000175
44	2022-03-08	Profit : 5735.1999999999825
45	2022-03-09	Profit : 2753.9999999998574
46	2022-03-10	Loss : -2887.5
47	2022-03-11	Loss : -1012.70000000006228
48	2022-03-14	Profit : 1692.80000000013853
49	2022-03-15	Profit : 351.39999999994703
50	2022-03-16	Profit : 4840.3000000000483
51	2022-03-17	Profit : 1451.3999999999942
52	2022-03-21	Profit : 200.3999999985972
53	2022-03-22	Profit : 12964.19999999975
54	2022-03-23	Profit : 371.70000000002736
55	2022-03-24	Loss : -1104.95000000016124
56	2022-03-25	Profit : 1563.0999999999767
57	2022-03-28	Profit : 408.00000000016298
58	2022-03-29	Profit : 165.000000000032014
59	2022-03-30	Loss : -616.40000000016531
60	2022-03-31	Profit : 5301.8000000001618
61	2022-04-01	Profit : 3830.3999999994994
62	2022-04-04	Loss : -2345.1500000001682
63	2022-04-05	Loss : -26.64999999947031
64	2022-04-06	Profit : 2164.0
65	2022-04-07	Profit : 1487.75000000006403
66	2022-04-08	Profit : 932.7500000001688
67	2022-04-11	Profit : 2943.0
68	2022-04-12	Profit : 9518.25
69	2022-04-13	Loss : -1262.2500000001135
70	2022-04-18	Profit : 1147.9999999980791
71	2022-04-19	Profit : 2990.0000000001135
72	2022-04-20	Profit : 672.7499999987485
73	2022-04-21	Profit : 2846.2500000001979
74	2022-04-22	Loss : -1006.25000000013097
75	2022-04-25	Profit : 2856.70000000013213
76	2022-04-26	Profit : 28.500000000136788
77	2022-04-27	Profit : 1894.75000000020082
78	2022-04-28	Profit : 1520.9999999985448
79	2022-04-29	Profit : 1350.09999999979103