

# Stock Price Prediction Using Machine

## Learning

By

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## ***Data Collection & Preparation***

DL depends heavily on data. It is the most crucial aspect that makes algorithm training possible. So, this section allows you to download the required dataset.

### ***Collection Of The Dataset***

There are many popular open sources for collecting the data. Eg: kaggle.com, UCI repository, etc.

In this project, we have used .csv data. This data is downloaded from kaggle.com. Please refer to the link given below to download the dataset.

As the dataset is downloaded. Let us read and understand the data properly with the help of some visualization techniques and some analyzing techniques.

Note: There are a number of techniques for understanding the data. But here we have used some of it. In an additional way, you can use multiple techniques.

## DATASETS

### AMD:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Date	Open	High	Low	Close	Adj Close	Volume							
2	#####	0	3.125	2.9375	3.03125	3.03125	727200							
3	#####	0	3.083333	3.020833	3.041667	3.041667	295200							
4	#####	0	3.0625	3.010417	3.010417	3.010417	159600							
5	#####	0	3.020833	2.90625	2.916667	2.916667	130800							
6	#####	0	2.916667	2.635417	2.666667	2.666667	436800							
7	#####	0	2.75	2.552083	2.604167	2.604167	645600							
8	#####	0	2.604167	2.427083	2.447917	2.447917	466800							
9	#####	0	2.375	2.239583	2.375	2.375	1129200							
10	#####	0	2.583333	2.458333	2.541667	2.541667	666000							
11	#####	0	2.583333	2.520833	2.541667	2.541667	430800							
12	#####	0	2.770833	2.583333	2.739583	2.739583	492000							
13	#####	0	2.739583	2.614583	2.625	2.625	283200							
14	#####	0	2.635417	2.604167	2.635417	2.635417	226800							
15	#####	0	2.614583	2.53125	2.541667	2.541667	355200							
16	#####	0	2.625	2.5	2.59375	2.59375	765600							
17	#####	0	2.666667	2.583333	2.666667	2.666667	134400							
18	#####	0	2.739583	2.65625	2.739583	2.739583	174000							
19	#####	0	2.770833	2.635417	2.635417	2.635417	109200							

### ASUS:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Date	Open	High	Low	Close	Adj Close	Volume							
2	#####	438.7472	446.5357	436.1512	438.7472	89.09261	6.11E+09							
3	#####	440.0454	447.8339	436.1512	437.4493	88.82905	6.55E+09							
4	#####	432.2569	433.5551	425.7666	428.3627	86.98393	4.76E+09							
5	#####	434.8533	454.3242	434.8533	450.4299	91.46492	1.2E+10							
6	#####	463.4108	463.4108	442.6414	443.9396	90.14699	1.42E+10							
7	#####	447.8339	473.7953	445.2378	473.7953	96.20953	1.95E+10							
8	#####	494.5643	494.5643	480.2856	484.1798	98.31823	2.83E+10							
9	#####	486.7759	489.3719	467.305	468.6029	95.15517	1.29E+10							
10	#####	480.2856	499.7567	475.0932	490.6701	99.63615	1.71E+10							
11	#####	493.2661	499.7567	485.478	499.7567	101.4813	1.11E+10							
12	#####	497.1604	497.1604	481.5837	481.5837	97.79107	1.01E+10							
13	#####	481.5837	485.478	476.3913	480.2856	97.52746	6.79E+09							
14	#####	482.8816	486.7759	478.9874	480.2856	97.52746	5.05E+09							
15	#####	482.8816	486.7759	476.3913	476.3913	96.73666	4.05E+09							
16	#####	473.7953	475.0932	468.6029	469.901	95.41877	4.21E+09							
17	#####	473.7953	485.478	473.7953	478.9874	97.26385	5.47E+09							
18	#####	481.5837	484.1798	473.7953	473.7953	96.20953	3.79E+09							
19	#####	473.7953	485.478	471.1992	476.3913	96.73666	6.73E+09							

### INTEL:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Date	Open	High	Low	Close	Adj Close	Volume							
2	#####	0.325521	0.328125	0.322917	0.322917	0.183718	17068800							
3	#####	0.330729	0.335938	0.330729	0.330729	0.188162	18508800							
4	#####	0.330729	0.334635	0.329427	0.329427	0.187421	11174400							
5	#####	0.322917	0.322917	0.317708	0.317708	0.180754	12172800							
6	#####	0.316406	0.316406	0.311198	0.311198	0.177705	8966400							
7	#####	0.3125	0.317708	0.3125	0.3125	0.177791	11347200							
8	#####	0.3125	0.315104	0.309896	0.309896	0.17631	16262400							
9	#####	0.304688	0.304688	0.299479	0.299479	0.170383	26918400							
10	#####	0.311198	0.316406	0.311198	0.311198	0.177705	20102400							
11	#####	0.321615	0.326823	0.321615	0.321615	0.182977	9004800							
12	#####	0.322917	0.328125	0.322917	0.322917	0.183718	8179200							
13	#####	0.325521	0.330729	0.325521	0.325521	0.185199	12556800							
14	#####	0.324219	0.324219	0.31901	0.31901	0.181495	6988800							
15	#####	0.316406	0.316406	0.311198	0.311198	0.177705	13478400							
16	#####	0.3125	0.317708	0.3125	0.3125	0.177791	29184000							
17	#####	0.311198	0.311198	0.30599	0.30599	0.174087	11558400							
18	#####	0.30599	0.309896	0.304688	0.304688	0.173347	14784000							
19	#####	0.304688	0.309896	0.304688	0.304688	0.173347	9523200							
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## MSI:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Date	Open	High	Low	Close	Adj Close	Volume							
2	#####	119	122.5	119	122.5	117.7857	1688380							
3	#####	122.5	122.5	121	122	117.305	1214832							
4	#####	123	124	122.5	123.5	118.7472	2223376							
5	#####	123.5	124.5	123	124	119.228	915155							
6	#####	125	126	124.5	126	121.151	2305489							
7	#####	125.5	126.5	124.5	126.5	121.6318	2023221							
8	#####	127	127	125	125.5	120.6703	1301508							
9	#####	125.5	126.5	124.5	125.5	120.6703	1209358							
10	#####	126	127	125	125.5	120.6703	2053567							
11	#####	126	127.5	124.5	125.5	120.6703	2162267							
12	#####	126	128.5	125	127.5	122.5933	2867750							
13	#####	130	133.5	130	133	127.8816	5311964							
14	#####	132	134.5	129	131	125.9586	4824774							
15	#####	131.5	134.5	130	134	128.8431	4106102							
16	#####	134	134	131.5	133	127.8816	2807863							
17	#####	132	134	131.5	132	126.9201	2079523							
18	#####	131.5	135	131.5	132.5	127.4009	2646467							
19	#####	132.5	134.5	131.5	134	128.8431	2392375							

## NVIDIA:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Date	Open	High	Low	Close	Adj Close	Volume							
2	#####	0.442708	0.458333	0.410156	0.453125	0.415743	51048000							
3	#####	0.458333	0.467448	0.411458	0.417969	0.383487	34320000							
4	#####	0.419271	0.429688	0.395833	0.416667	0.382293	24436800							
5	#####	0.416667	0.419271	0.41276	0.415365	0.381098	22752000							
6	#####	0.415365	0.416667	0.395833	0.395833	0.363177	24403200							
7	#####	0.395833	0.40625	0.395833	0.403646	0.370346	15470400							
8	#####	0.395833	0.40625	0.360677	0.372396	0.341674	26409600							
9	#####	0.367188	0.385417	0.364583	0.380208	0.348841	7512000							
10	#####	0.385417	0.411458	0.380208	0.401042	0.367957	18192000							
11	#####	0.407552	0.416667	0.397135	0.41276	0.378708	13684800							
12	#####	0.415365	0.416667	0.398438	0.398438	0.365567	15408000							
13	#####	0.40625	0.408854	0.377604	0.382813	0.351232	8697600							
14	#####	0.382813	0.393229	0.372396	0.378906	0.347647	14822400							
15	#####	0.380208	0.427083	0.380208	0.411458	0.377513	13224000							
16	#####	0.416667	0.4375	0.416667	0.434896	0.399018	10972800							
17	#####	0.442708	0.460938	0.393229	0.4375	0.401407	21100800							
18	#####	0.427083	0.432292	0.40625	0.414063	0.379903	6772800							
19	#####	0.427083	0.432292	0.408854	0.420573	0.385876	7070400							

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