

```
import pandas as pd
import numpy as np

df=pd.read_csv('https://raw.githubusercontent.com/sithukhant1/train-valid-test/main/data/netflix-stock-price-prediction.csv')
```

+ Code

+ Text

df

	Date	Open	High	Low	Close	Adj Close	Volume
0	2018-02-05	262.000000	267.899994	250.029999	254.259995	254.259995	11896100
1	2018-02-06	247.699997	266.700012	245.000000	265.720001	265.720001	12595800
2	2018-02-07	266.579987	272.450012	264.329987	264.559998	264.559998	8981500
3	2018-02-08	267.079987	267.619995	250.000000	250.100006	250.100006	9306700
4	2018-02-09	253.850006	255.800003	236.110001	249.470001	249.470001	16906900
...
1004	2022-01-31	401.970001	427.700012	398.200012	427.140015	427.140015	20047500
1005	2022-02-01	432.959991	458.480011	425.540009	457.130005	457.130005	22542300
1006	2022-02-02	448.250000	451.980011	426.480011	429.480011	429.480011	14346000
1007	2022-02-03	421.440002	429.260010	404.279999	405.600006	405.600006	9905200
1008	2022-02-04	407.309998	412.769989	396.640015	410.170013	410.170013	7782400

1009 rows × 7 columns

df=df.sort_values(by='Date',ascending=True)

df

	Date	Open	High	Low	Close	Adj Close	Volume
0	2018-02-05	262.000000	267.899994	250.029999	254.259995	254.259995	11896100
1	2018-02-06	247.699997	266.700012	245.000000	265.720001	265.720001	12595800
2	2018-02-07	266.579987	272.450012	264.329987	264.559998	264.559998	8981500
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...
1004	2022-01-31	401.970001	427.700012	398.200012	427.140015	427.140015	20047500
1005	2022-02-01	432.959991	458.480011	425.540009	457.130005	457.130005	22542300
1006	2022-02-02	448.250000	451.980011	426.480011	429.480011	429.480011	14346000
1007	2022-02-03	421.440002	429.260010	404.279999	405.600006	405.600006	9905200
1008	2022-02-04	407.309998	412.769989	396.640015	410.170013	410.170013	7782400

1009 rows × 7 columns

```
x=df.drop('Volume',axis=1)
y=df['Volume']
```

x

	Date	Open	High	Low	Close	Adj Close
0	2018-02-05	262.000000	267.899994	250.029999	254.259995	254.259995
1	2018-02-06	247.699997	266.700012	245.000000	265.720001	265.720001
2	2018-02-07	266.579987	272.450012	264.329987	264.559998	264.559998
3	2018-02-08	267.079987	267.619995	250.000000	250.100006	250.100006
4	2018-02-09	253.850006	255.800003	236.110001	249.470001	249.470001
...
1004	2022-01-31	401.970001	427.700012	398.200012	427.140015	427.140015
1005	2022-02-01	432.959991	458.480011	425.540009	457.130005	457.130005
1006	2022-02-02	448.250000	451.980011	426.480011	429.480011	429.480011
1007	2022-02-03	421.440002	429.260010	404.279999	405.600006	405.600006
1008	2022-02-04	407.309998	412.769989	396.640015	410.170013	410.170013

1009 rows × 6 columns

```
y
0      11896100
1      12595800
2       8981500
3       9306700
4      16906900
...
1004    20047500
1005    22542300
1006    14346000
1007     9905200
1008     7782400
Name: Volume, Length: 1009, dtype: int64

from sklearn.model_selection import train_test_split

x_train,x_valid_test,y_train,y_valid_test=train_test_split(x,y,test_size=0.4)

x_valid,x_test,y_valid,y_test=train_test_split(x_valid_test,y_valid_test,test_size=0.5)

x_train,y_train=x[:800],y[:800]

x_valid,y_valid=x[801:901],y[801:901]

x_test,t_valid=x[902:],y[902:]

print(len(x_train),len(x_valid),len(x_test))

800 100 107
```

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