

```
#method 1
import pandas as pd

data = {
    "USN": ["1bm23cs417", "1bm22cs112", "1bm22cs225", "1BM22CS441", "1bm22cs512"],
    "Name": ["Rohit", "Rahul", "Gaj", "Revanth", "pranitha"],
    "Marks": [85, 90, 78, 88, 92]
}
df = pd.DataFrame(data)
print(df)
```

```
↗
```

	USN	Name	Marks
0	1bm23cs417	Rohit	85
1	1bm22cs112	Rahul	90
2	1bm22cs225	Gaj	78
3	1BM22CS441	Revanth	88
4	1bm22cs512	pranitha	92

```
#method 2
from sklearn.datasets import load_diabetes
import pandas as pd

diabetes = load_diabetes()
df = pd.DataFrame(diabetes.data, columns=diabetes.feature_names)
df['target'] = diabetes.target
print(df.head())
```

```
↗
```

	age	sex	bmi	bp	s1	s2	s3 \
0	0.038076	0.050680	0.061696	0.021872	-0.044223	-0.034821	-0.043401
1	-0.001882	-0.044642	-0.051474	-0.026328	-0.008449	-0.019163	0.074412
2	0.085299	0.050680	0.044451	-0.005670	-0.045599	-0.034194	-0.032356
3	-0.089063	-0.044642	-0.011595	-0.036656	0.012191	0.024991	-0.036038
4	0.005383	-0.044642	-0.036385	0.021872	0.003935	0.015596	0.008142

	s4	s5	s6	target
0	-0.002592	0.019907	-0.017646	151.0
1	-0.039493	-0.068332	-0.092204	75.0
2	-0.002592	0.002861	-0.025930	141.0
3	0.034309	0.022688	-0.009362	206.0
4	-0.002592	-0.031988	-0.046641	135.0

```
#method 3
df2 = pd.read_csv('/content/Dataset of Diabetes .csv', encoding='latin-1')
print("Sample data:")
print(df2.head())
```

```
↗ Sample data:
```

	ID	No_Patien	Gender	AGE	Urea	Cr	HbA1c	Chol	TG	HDL	LDL	VLDL \
0	502	17975	F	50	4.7	46	4.9	4.2	0.9	2.4	1.4	0.5
1	735	34221	M	26	4.5	62	4.9	3.7	1.4	1.1	2.1	0.6
2	420	47975	F	50	4.7	46	4.9	4.2	0.9	2.4	1.4	0.5
3	680	87656	F	50	4.7	46	4.9	4.2	0.9	2.4	1.4	0.5
4	504	34223	M	33	7.1	46	4.9	4.9	1.0	0.8	2.0	0.4

	BMI	CLASS
0	24.0	N
1	23.0	N
2	24.0	N
3	24.0	N
4	21.0	N

```
import yfinance as yf
import pandas as pd
import matplotlib.pyplot as plt
```

```
tickers = ["HDFCBANK.NS", "ICICIBANK.NS", "KOTAKBANK.NS"]
data = yf.download(tickers, start="2024-01-01", end="2024-12-30",
group_by='ticker')
print("First 5 rows of the dataset:")
```

```
print(data.head())
```

```
↗ [*****100%*****] 3 of 3 completedFirst 5 rows of the dataset:
```

Ticker	ICICIBANK.NS	
Price	Open	High Low Close Volume
Date		

2024-01-01	983.086778	996.273246	982.541485	990.869812	7683792
2024-01-02	988.490253	989.134730	971.883221	973.866150	16263825
2024-01-03	976.295294	979.567116	966.777197	975.650818	16826752
2024-01-04	977.980767	980.707295	973.519176	978.724365	22789140
2024-01-05	979.567084	989.779158	975.402920	985.218445	14875499

Ticker	KOTAKBANK.NS				
Price	Open	High	Low	Close	Volume
2024-01-01	1906.909954	1916.899006	1891.027338	1907.059814	1425902
2024-01-02	1905.911108	1905.911108	1858.063525	1863.008179	5120796
2024-01-03	1861.959234	1867.952665	1845.627158	1863.857178	3781515
2024-01-04	1869.451068	1869.451068	1858.513105	1861.559692	2865766
2024-01-05	1863.457575	1867.852782	1839.383985	1845.577148	7799341

Ticker	HDFCBANK.NS				
Price	Open	High	Low	Close	Volume
2024-01-01	1683.017598	1686.125187	1669.206199	1675.223999	7119843
2024-01-02	1675.914685	1679.860799	1665.950651	1676.210571	14621046
2024-01-03	1679.071480	1681.735059	1646.466666	1650.363525	14194881
2024-01-04	1655.394910	1672.116520	1648.193203	1668.071777	13367028
2024-01-05	1664.421596	1681.932477	1645.628180	1659.538208	15944735

```
print("\nShape of the dataset:")
print(data.shape)
print("\nColumn names:")
print(data.columns)
hdfc_data = data['HDFCBANK.NS']
print("\nSummary statistics for HDFC Industries:")
print(hdfc_data.describe())
hdfc_data['Daily Return'] = hdfc_data['Close'].pct_change()
hdfc_data['Daily Return'] = hdfc_data['Close'].pct_change()

#icici
icici_data = data['ICICIBANK.NS']
print("\nSummary statistics for ICICI Industries:")
print(icici_data.describe())
icici_data['Daily Return'] = icici_data['Close'].pct_change()
icici_data['Daily Return'] = icici_data['Close'].pct_change()

#kotak
kotak_data = data['KOTAKBANK.NS']
print("\nSummary statistics for KOTAK Industries:")
print(kotak_data.describe())
kotak_data['Daily Return'] = kotak_data['Close'].pct_change()
kotak_data['Daily Return'] = kotak_data['Close'].pct_change()
```



See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
hdfc_data['Daily Return'] = hdfc_data['Close'].pct_change()
```

<ipython-input-51-aef14e67a64b>:15: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
icici_data['Daily Return'] = icici_data['Close'].pct_change()
```

<ipython-input-51-aef14e67a64b>:16: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
icici_data['Daily Return'] = icici_data['Close'].pct_change()
```

<ipython-input-51-aef14e67a64b>:22: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

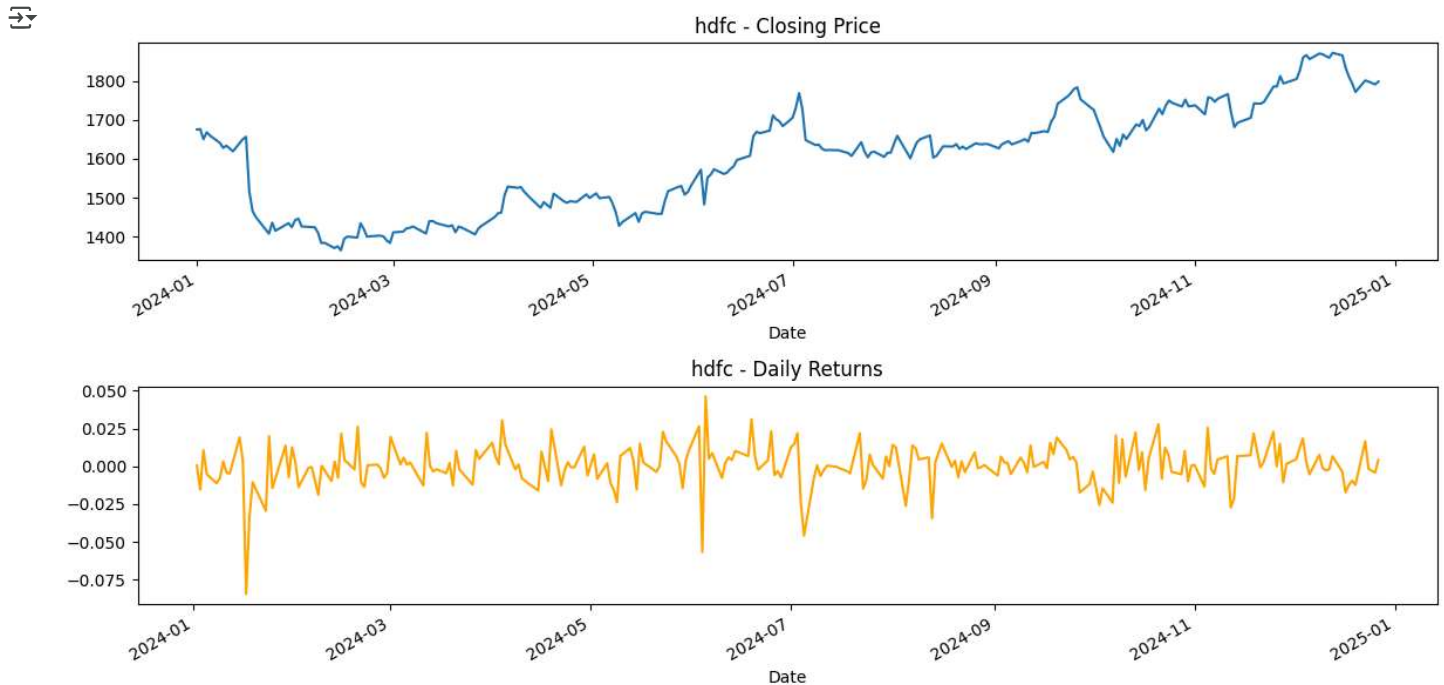
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

```
kotak_data['Daily Return'] = kotak_data['Close'].pct_change()
```

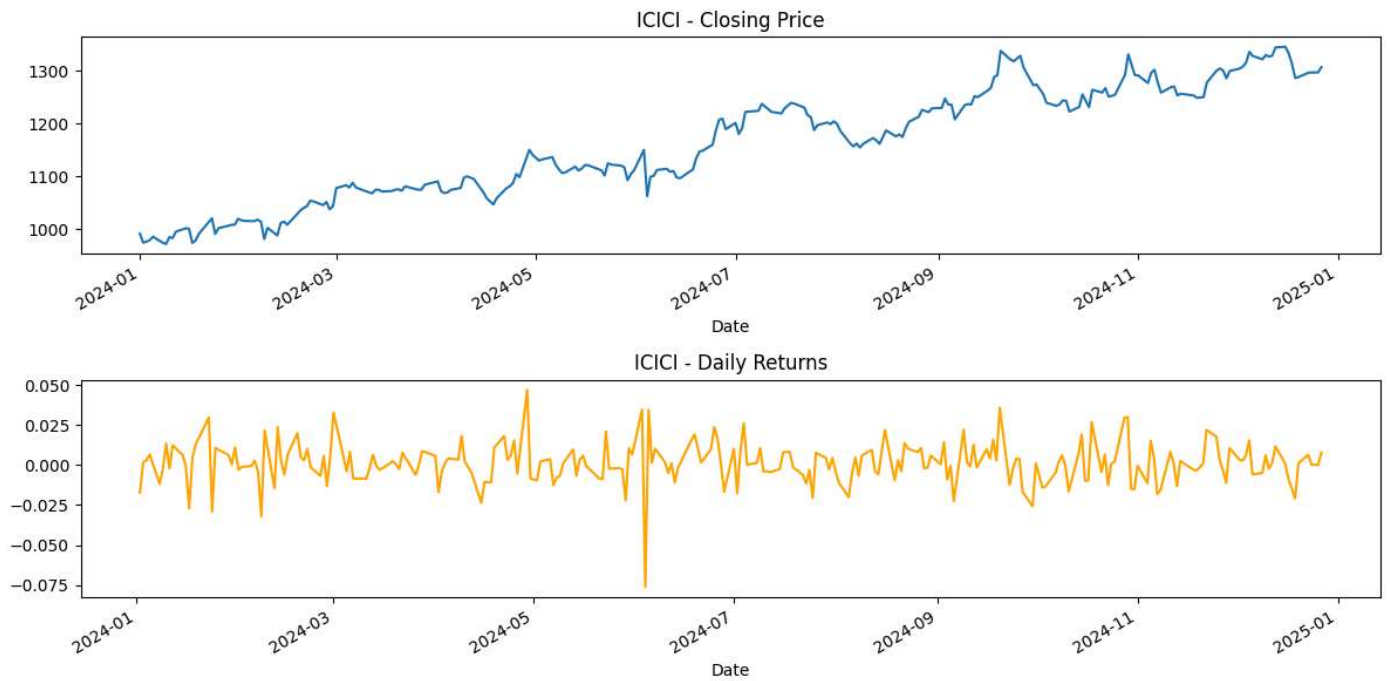
<ipython-input-51-aef14e67a64b>:23: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

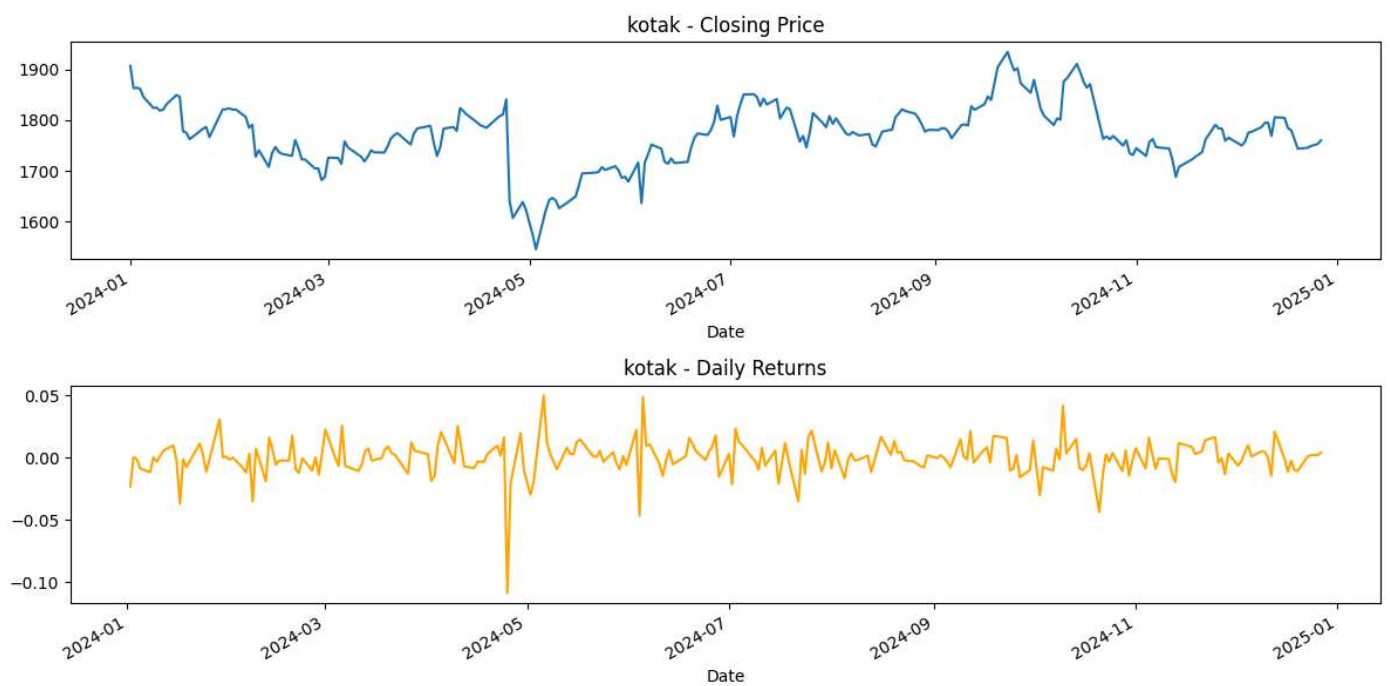
```
plt.figure(figsize=(12, 6))
plt.subplot(2, 1, 1)
hdfc_data['Close'].plot(title="hdfc - Closing Price")
plt.subplot(2, 1, 2)
hdfc_data['Daily Return'].plot(title="hdfc - Daily Returns", color='orange')
plt.tight_layout()
plt.show()
```



```
plt.figure(figsize=(12, 6))
plt.subplot(2, 1, 1)
icici_data['Close'].plot(title="ICICI - Closing Price")
plt.subplot(2, 1, 2)
icici_data['Daily Return'].plot(title="ICICI - Daily Returns", color='orange')
plt.tight_layout()
plt.show()
```



```
plt.figure(figsize=(12, 6))
plt.subplot(2, 1, 1)
kotak_data['Close'].plot(title="kotak - Closing Price")
plt.subplot(2, 1, 2)
kotak_data['Daily Return'].plot(title="kotak - Daily Returns", color='orange')
plt.tight_layout()
plt.show()
```



```
hdfc_data.to_csv('hdfc_data.csv')
icici_data.to_csv('icici_data.csv')
kotak_data.to_csv('kotak_data.csv')
```

Start coding or [generate](#) with AI.