

```
pip install pandas
```

```
Requirement already satisfied: pandas in /usr/local/lib/python3.12/dist-packages (2.2.2)
Requirement already satisfied: numpy>=1.26.0 in /usr/local/lib/python3.12/dist-packages (from pandas) (2.0.2)
Requirement already satisfied: python-dateutil>=2.8.2 in /usr/local/lib/python3.12/dist-packages (from pandas) (2.9.0.post0)
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.12/dist-packages (from pandas) (2025.2)
Requirement already satisfied: tzdata>=2022.7 in /usr/local/lib/python3.12/dist-packages (from pandas) (2025.2)
Requirement already satisfied: six>=1.5 in /usr/local/lib/python3.12/dist-packages (from python-dateutil>=2.8.2->pandas) (1.1
```

```
import pandas as pd
```

```
df = pd.read_csv("/content/BTC-USD.csv")
```

```
df.head()
```

	Date	Open	High	Low	Close	Adj Close	Volume
0	2014-09-17	465.864014	468.174011	452.421997	457.334015	457.334015	21056800
1	2014-09-18	456.859985	456.859985	413.104004	424.440002	424.440002	34483200
2	2014-09-19	424.102997	427.834991	384.532013	394.795990	394.795990	37919700
3	2014-09-20	394.673004	423.295990	389.882996	408.903992	408.903992	36863600
4	2014-09-21	408.084991	412.425995	393.181000	398.821014	398.821014	26580100

Next steps: [Generate code with df](#) [New interactive sheet](#)

```
print(df.info())      # Column data types
print(df.describe())  # Summary stats
```

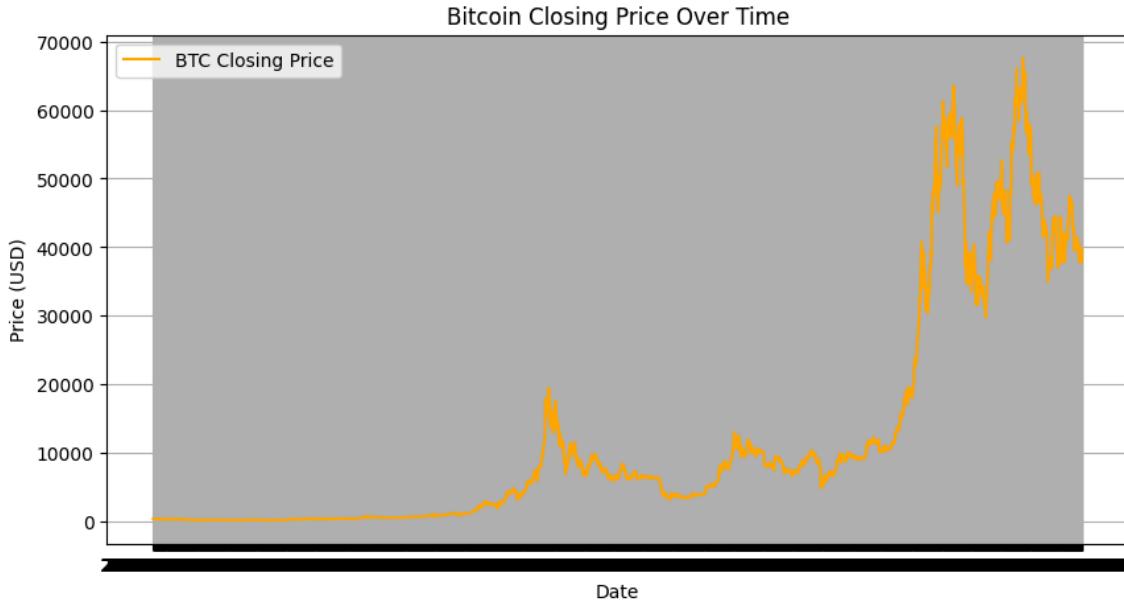
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2788 entries, 0 to 2787
Data columns (total 7 columns):
 #   Column      Non-Null Count  Dtype  
--- 
 0   Date        2788 non-null   object  
 1   Open         2788 non-null   float64 
 2   High         2788 non-null   float64 
 3   Low          2788 non-null   float64 
 4   Close        2788 non-null   float64 
 5   Adj Close    2788 non-null   float64 
 6   Volume       2788 non-null   int64  
dtypes: float64(5), int64(1), object(1)
memory usage: 152.6+ KB
None
      Open           High           Low           Close          Adj Close \ 
count  2788.000000  2788.000000  2788.000000  2788.000000  2788.000000
mean   12114.051628 12432.075536 11764.920824 12126.416572 12126.416572
std    16612.538889 17044.777888 16119.346993 16615.381435 16615.381435
min    176.897003  211.731003  171.509995  178.102997  178.102997
25%   612.573471  618.876495  609.665756  613.742477  613.742477
50%   6457.810059  6549.650147  6353.985107  6466.239990  6466.239990
75%   11024.040039 11388.611572 10722.320557 11056.325195 11056.325195
max   67549.734375 68789.625000 66382.062500 67566.828125 67566.828125

      Volume
count  2.788000e+03
mean   1.504640e+10
std    1.988339e+10
min    5.914570e+06
25%   8.317548e+07
50%   5.401853e+09
75%   2.558002e+10
max   3.509679e+11
```

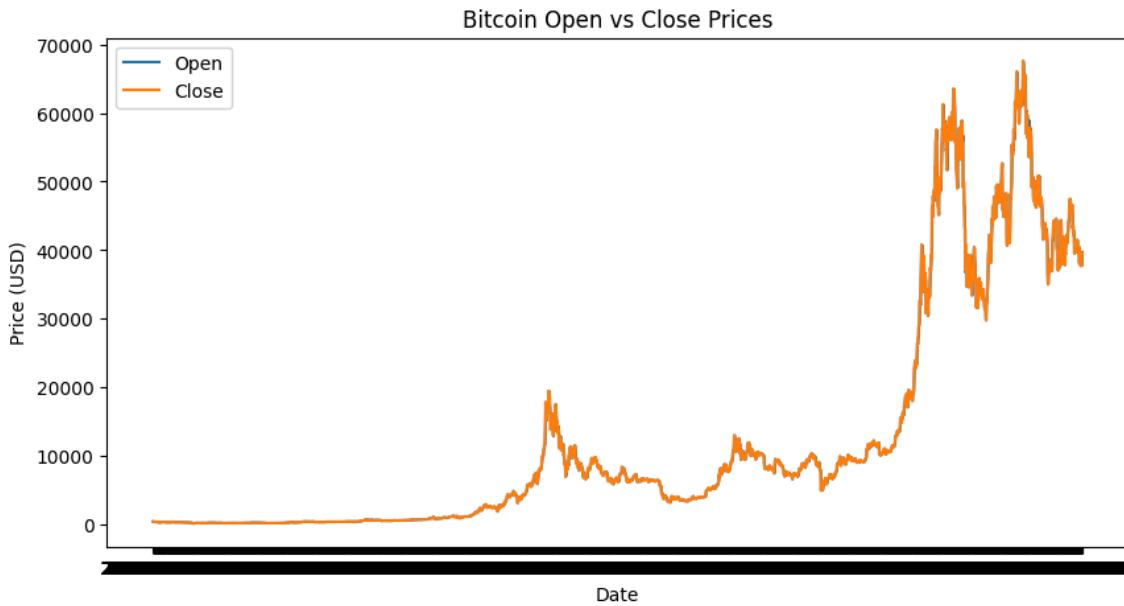
```
import matplotlib.pyplot as plt
```

```
plt.figure(figsize=(10,5))
plt.plot(df["Date"], df["Close"], label="BTC Closing Price", color='orange')
plt.xlabel("Date")
plt.ylabel("Price (USD)")
plt.title("Bitcoin Closing Price Over Time")
```

```
plt.legend()  
plt.grid(True)  
plt.show()
```



```
plt.figure(figsize=(10,5))  
plt.plot(df["Date"], df["Open"], label="Open")  
plt.plot(df["Date"], df["Close"], label="Close")  
plt.xlabel("Date")  
plt.ylabel("Price (USD)")  
plt.title("Bitcoin Open vs Close Prices")  
plt.legend()  
plt.show()
```



```
plt.figure(figsize=(10,5))  
plt.bar(df["Date"].head(10), df["Volume"].head(10), color='purple')  
plt.xlabel("Date")  
plt.ylabel("Volume")  
plt.title("Trading Volume (First 10 Days)")  
plt.xticks(rotation=45)  
plt.show()
```

