

```
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	17044.777808	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

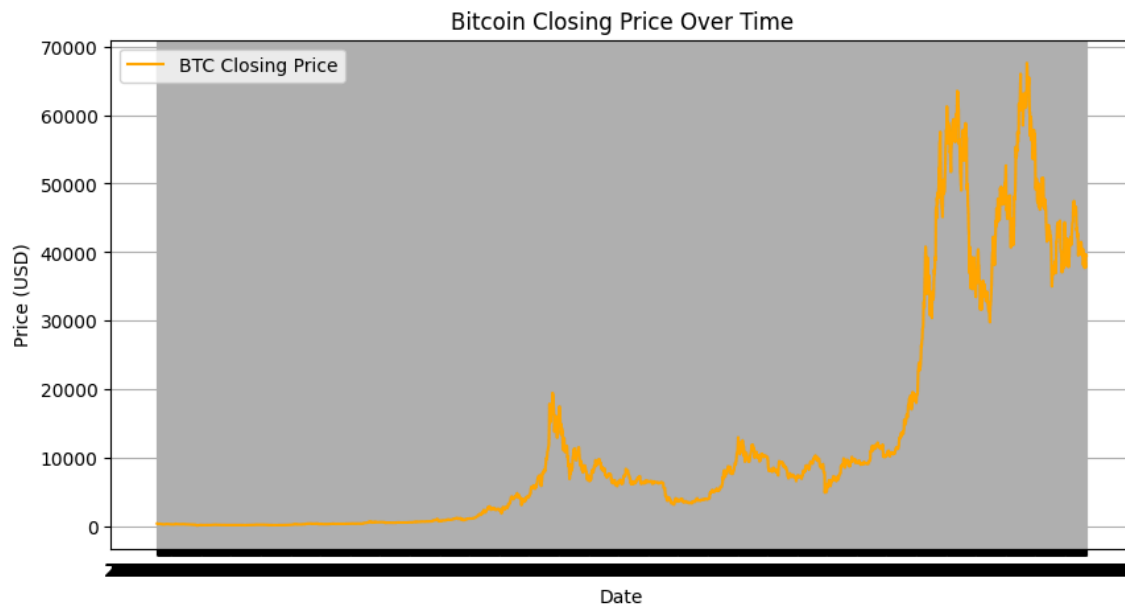
```

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
```

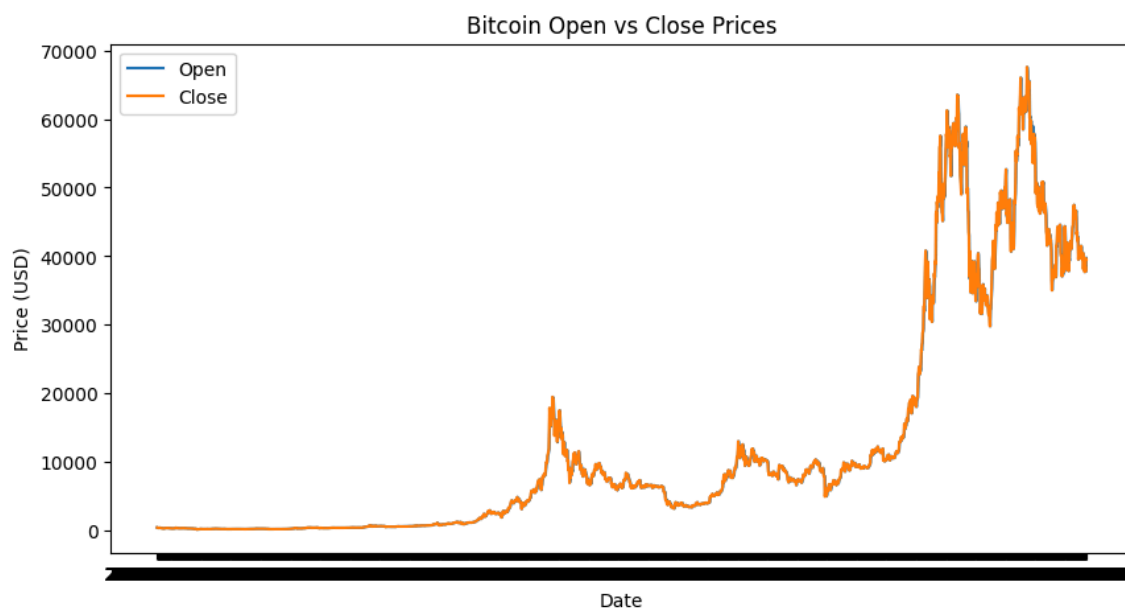
```
import matplotlib.pyplot as plt
```

```
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()
```

