



```
In [10]: !pip install yfinance pandas matplotlib
```

Collecting yfinance

Using cached yfinance-0.2.66-py2.py3-none-any.whl.metadata (6.0 kB)

Requirement already satisfied: pandas in c:\users\hp\anaconda3\lib\site-packages (2.2.2)

Requirement already satisfied: matplotlib in c:\users\hp\anaconda3\lib\site-packages (3.8.4)

Requirement already satisfied: numpy>=1.16.5 in c:\users\hp\anaconda3\lib\site-packages (from yfinance) (1.26.4)

Requirement already satisfied: requests>=2.31 in c:\users\hp\anaconda3\lib\site-packages (from yfinance) (2.32.2)

Collecting multitasking>=0.0.7 (from yfinance)

Downloading multitasking-0.0.12.tar.gz (19 kB)

Preparing metadata (setup.py): started

Preparing metadata (setup.py): finished with status 'done'

Requirement already satisfied: platformdirs>=2.0.0 in c:\users\hp\anaconda3\lib\site-packages (from yfinance) (3.10.0)

Requirement already satisfied: pytz>=2022.5 in c:\users\hp\anaconda3\lib\site-packages (from yfinance) (2024.1)

Requirement already satisfied: frozendict>=2.3.4 in c:\users\hp\anaconda3\lib\site-packages (from yfinance) (2.4.2)

Collecting peewee>=3.16.2 (from yfinance)

Downloading peewee-3.18.2.tar.gz (949 kB)

----- 0.0/949.2 kB ? eta -:-:-

----- 10.2/949.2 kB ? eta -:-:-

- ----- 30.7/949.2 kB 435.7 kB/s eta 0:00:03

- ----- 41.0/949.2 kB 393.8 kB/s eta 0:00:03

-- ----- 61.4/949.2 kB 328.2 kB/s eta 0:00:03

--- ----- 92.2/949.2 kB 374.1 kB/s eta 0:00:03

--- ----- 92.2/949.2 kB 374.1 kB/s eta 0:00:03

--- ----- 92.2/949.2 kB 374.1 kB/s eta 0:00:03

--- ----- 92.2/949.2 kB 374.1 kB/s eta 0:00:03

----- 122.9/949.2 kB 277.4 kB/s eta 0:00:03

----- 153.6/949.2 kB 316.5 kB/s eta 0:00:03

----- 153.6/949.2 kB 316.5 kB/s eta 0:00:03

----- 153.6/949.2 kB 316.5 kB/s eta 0:00:03

----- 174.1/949.2 kB 275.8 kB/s eta 0:00:03

----- 194.6/949.2 kB 287.6 kB/s eta 0:00:03

----- 204.8/949.2 kB 289.5 kB/s eta 0:00:03

----- 204.8/949.2 kB 289.5 kB/s eta 0:00:03

----- 204.8/949.2 kB 289.5 kB/s eta 0:00:03

----- 225.3/949.2 kB 254.8 kB/s eta 0:00:03

----- 256.0/949.2 kB 271.3 kB/s eta 0:00:03

----- 276.5/949.2 kB 279.4 kB/s eta 0:00:03

----- 276.5/949.2 kB 279.4 kB/s eta 0:00:03

----- 276.5/949.2 kB 279.4 kB/s eta 0:00:03

----- 317.4/949.2 kB 285.0 kB/s eta 0:00:03

----- 358.4/949.2 kB 305.1 kB/s eta 0:00:02

----- 358.4/949.2 kB 305.1 kB/s eta 0:00:02

----- 358.4/949.2 kB 305.1 kB/s eta 0:00:02

----- 358.4/949.2 kB 305.1 kB/s eta 0:00:02

----- 358.4/949.2 kB 305.1 kB/s eta 0:00:02

----- 368.6/949.2 kB 257.7 kB/s eta 0:00:03

----- 389.1/949.2 kB 257.9 kB/s eta 0:00:03

```

----- 399.4/949.2 kB 254.2 kB/s eta 0:00:03
----- 399.4/949.2 kB 254.2 kB/s eta 0:00:03
----- 419.8/949.2 kB 252.1 kB/s eta 0:00:03
----- 419.8/949.2 kB 252.1 kB/s eta 0:00:03
----- 440.3/949.2 kB 254.8 kB/s eta 0:00:02
----- 450.6/949.2 kB 253.9 kB/s eta 0:00:02
----- 471.0/949.2 kB 258.7 kB/s eta 0:00:02
----- 471.0/949.2 kB 258.7 kB/s eta 0:00:02
----- 471.0/949.2 kB 258.7 kB/s eta 0:00:02
----- 471.0/949.2 kB 258.7 kB/s eta 0:00:02
----- 481.3/949.2 kB 239.2 kB/s eta 0:00:02
----- 481.3/949.2 kB 239.2 kB/s eta 0:00:02
----- 481.3/949.2 kB 239.2 kB/s eta 0:00:02
----- 522.2/949.2 kB 242.8 kB/s eta 0:00:02
----- 553.0/949.2 kB 249.9 kB/s eta 0:00:02
----- 553.0/949.2 kB 249.9 kB/s eta 0:00:02
----- 553.0/949.2 kB 249.9 kB/s eta 0:00:02
----- 604.2/949.2 kB 258.6 kB/s eta 0:00:02
----- 614.4/949.2 kB 261.2 kB/s eta 0:00:02
----- 645.1/949.2 kB 265.5 kB/s eta 0:00:02
----- 665.6/949.2 kB 272.4 kB/s eta 0:00:02
----- 727.0/949.2 kB 288.6 kB/s eta 0:00:01
----- 798.7/949.2 kB 311.5 kB/s eta 0:00:01
----- 829.4/949.2 kB 317.8 kB/s eta 0:00:01
----- 890.9/949.2 kB 335.5 kB/s eta 0:00:01
----- 942.1/949.2 kB 348.7 kB/s eta 0:00:01
----- 942.1/949.2 kB 348.7 kB/s eta 0:00:01
----- 942.1/949.2 kB 348.7 kB/s eta 0:00:01
----- 942.1/949.2 kB 348.7 kB/s eta 0:00:01
----- 942.1/949.2 kB 348.7 kB/s eta 0:00:01
----- 942.1/949.2 kB 348.7 kB/s eta 0:00:01
----- 942.1/949.2 kB 348.7 kB/s eta 0:00:01
----- 942.1/949.2 kB 348.7 kB/s eta 0:00:01
----- 949.2/949.2 kB 306.6 kB/s eta 0:00:00

```

Installing build dependencies: started

Installing build dependencies: finished with status 'done'

Getting requirements to build wheel: started

Getting requirements to build wheel: finished with status 'done'

Preparing metadata (pyproject.toml): started

Preparing metadata (pyproject.toml): finished with status 'done'

Requirement already satisfied: beautifulsoup4>=4.11.1 in c:\users\hp\anaconda3\lib\site-packages (from yfinance) (4.12.3)

Collecting curl\_cffi>=0.7 (from yfinance)

Downloading curl\_cffi-0.13.0-cp39-abi3-win\_amd64.whl.metadata (13 kB)

Requirement already satisfied: protobuf>=3.19.0 in c:\users\hp\anaconda3\lib\site-packages (from yfinance) (3.20.3)

Collecting websockets>=13.0 (from yfinance)

Downloading websockets-15.0.1-cp312-cp312-win\_amd64.whl.metadata (7.0 kB)

Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\hp\anaconda3\lib\site-packages (from pandas) (2.9.0.post0)

Requirement already satisfied: tzdata>=2022.7 in c:\users\hp\anaconda3\lib\site-packages (from pandas) (2023.3)

Requirement already satisfied: contourpy>=1.0.1 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib) (1.2.0)

```

Requirement already satisfied: cyclor>=0.10 in c:\users\hp\anaconda3\lib\site-p
ackages (from matplotlib) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\hp\anaconda3\lib\s
ite-packages (from matplotlib) (4.51.0)
Requirement already satisfied: kiwisolver>=1.3.1 in c:\users\hp\anaconda3\lib\s
ite-packages (from matplotlib) (1.4.4)
Requirement already satisfied: packaging>=20.0 in c:\users\hp\anaconda3\lib\sit
e-packages (from matplotlib) (23.2)
Requirement already satisfied: pillow>=8 in c:\users\hp\anaconda3\lib\site-pack
ages (from matplotlib) (10.3.0)
Requirement already satisfied: pyparsing>=2.3.1 in c:\users\hp\anaconda3\lib\si
te-packages (from matplotlib) (3.0.9)
Requirement already satisfied: soupsieve>1.2 in c:\users\hp\anaconda3\lib\site-
packages (from beautifulsoup4>=4.11.1->yfinance) (2.5)
Requirement already satisfied: cffi>=1.12.0 in c:\users\hp\anaconda3\lib\site-p
ackages (from curl_cffi>=0.7->yfinance) (1.16.0)
Requirement already satisfied: certifi>=2024.2.2 in c:\users\hp\anaconda3\lib\s
ite-packages (from curl_cffi>=0.7->yfinance) (2024.7.4)
Requirement already satisfied: six>=1.5 in c:\users\hp\anaconda3\lib\site-packa
ges (from python-dateutil>=2.8.2->pandas) (1.16.0)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\hp\anaconda
3\lib\site-packages (from requests>=2.31->yfinance) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in c:\users\hp\anaconda3\lib\site-p
ackages (from requests>=2.31->yfinance) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\hp\anaconda3\lib\
site-packages (from requests>=2.31->yfinance) (2.2.2)
Requirement already satisfied: pycparser in c:\users\hp\anaconda3\lib\site-pack
ages (from cffi>=1.12.0->curl_cffi>=0.7->yfinance) (2.21)
Downloading yfinance-0.2.66-py2.py3-none-any.whl (123 kB)
----- 0.0/123.4 kB ? eta -:-:-
----- 81.9/123.4 kB 2.3 MB/s eta 0:00:01
----- 122.9/123.4 kB 1.8 MB/s eta 0:00:01
----- 122.9/123.4 kB 1.8 MB/s eta 0:00:01
----- 122.9/123.4 kB 1.8 MB/s eta 0:00:01
----- 122.9/123.4 kB 1.8 MB/s eta 0:00:01
----- 122.9/123.4 kB 1.8 MB/s eta 0:00:01
----- 122.9/123.4 kB 1.8 MB/s eta 0:00:01
----- 122.9/123.4 kB 1.8 MB/s eta 0:00:01
----- 122.9/123.4 kB 1.8 MB/s eta 0:00:01
----- 122.9/123.4 kB 1.8 MB/s eta 0:00:01
----- 123.4/123.4 kB 241.3 kB/s eta 0:00:00
Downloading curl_cffi-0.13.0-cp39-abi3-win_amd64.whl (1.6 MB)
----- 0.0/1.6 MB ? eta -:-:-
----- 0.1/1.6 MB 2.3 MB/s eta 0:00:01
----- 0.2/1.6 MB 2.0 MB/s eta 0:00:01
----- 0.2/1.6 MB 2.2 MB/s eta 0:00:01
----- 0.3/1.6 MB 1.9 MB/s eta 0:00:01
----- 0.4/1.6 MB 1.9 MB/s eta 0:00:01
----- 0.4/1.6 MB 1.6 MB/s eta 0:00:01
----- 0.4/1.6 MB 1.5 MB/s eta 0:00:01
----- 0.5/1.6 MB 1.5 MB/s eta 0:00:01
----- 0.6/1.6 MB 1.6 MB/s eta 0:00:01
----- 0.7/1.6 MB 1.6 MB/s eta 0:00:01
----- 0.8/1.6 MB 1.6 MB/s eta 0:00:01

```

[illegible]

```

----- 176.8/176.8 kB 367.8 kB/s eta 0:00:00
Building wheels for collected packages: multitasking, peewee
  Building wheel for multitasking (setup.py): started
  Building wheel for multitasking (setup.py): finished with status 'done'
  Created wheel for multitasking: filename=multitasking-0.0.12-py3-none-any.whl
size=15617 sha256=7bc5b3e4e8dcea150d1e76d43bb048a40b52831fe88fdb4fc18ae32fd6c1
4b3
  Stored in directory: c:\users\hp\appdata\local\pip\cache\wheels\cc\bd\6f\664d
62c99327abeef7d86489e6631cbf45b56fbf7ef1d6ef00
  Building wheel for peewee (pyproject.toml): started
  Building wheel for peewee (pyproject.toml): finished with status 'done'
  Created wheel for peewee: filename=peewee-3.18.2-py3-none-any.whl size=139153
sha256=09e3e3624c58f7caf0f87ff2174783557e4eb74c98a548c8cfc7ec828cd0870b
  Stored in directory: c:\users\hp\appdata\local\pip\cache\wheels\d1\df\a9\0202
b051c65b11c992dd6db9f2babdd2c44ec7d35d511be5d3
Successfully built multitasking peewee
Installing collected packages: peewee, multitasking, websockets, curl_cffi, yfi
nance
Successfully installed curl_cffi-0.13.0 multitasking-0.0.12 peewee-3.18.2 webso
ckets-15.0.1 yfinance-0.2.66

```

```

In [5]: import yfinance as yf
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestRegressor
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_absolute_error, mean_squared_error

```

```

In [9]: gold = yf.download("GC=F", start="2015-06-01", end="2025-06-01", interval="1mc

C:\Users\hp\AppData\Local\Temp\ipykernel_20076\2391898876.py:1: FutureWarning:
YF.download() has changed argument auto_adjust default to True
  gold = yf.download("GC=F", start="2015-06-01", end="2025-06-01", interval="1m
o")
[*****100%*****] 1 of 1 completed

```

```

In [11]: gold.to_csv("gold_prices.csv")
print("File saved successfully!")

```

File saved successfully!

```

In [13]: # Skip the first two rows (ticker + fake headers)
df = pd.read_csv("gold_prices.csv", skiprows=[0,1])

#Rename columns properly
df.columns = ['Date', 'Close', 'High', 'Low', 'Open', 'Volume']

# Convert 'Date' to datetime and set as index
df['Date'] = pd.to_datetime(df['Date'], errors='coerce')
df = df.set_index('Date')

#Reorder columns correctly

```

```

df = df[['Open', 'High', 'Low', 'Close', 'Volume']]

# Convert numeric columns
df = df.apply(pd.to_numeric, errors='coerce')

# Clean and sort
df = df.dropna().sort_index()
df = df.reset_index()

print(df.head())

```

	Date	Open	High	Low	Close	Volume
0	2015-06-01	1190.599976	1204.000000	1164.000000	1171.500000	6252
1	2015-07-01	1173.099976	1173.099976	1078.599976	1094.900024	216892
2	2015-08-01	1095.500000	1169.000000	1080.500000	1131.599976	13251
3	2015-09-01	1133.500000	1155.900024	1098.199951	1115.500000	9119
4	2015-10-01	1115.199951	1189.000000	1105.800049	1141.500000	4321

```

In [15]: # Make sure the index is a datetime type
gold.index = pd.to_datetime(gold.index)
gold = gold.sort_index() # just in case

# Check for missing values
print("Missing values in each column:")
print(gold.isnull().sum())

# Fill missing values with the previous available value
gold = gold.fillna(method='ffill')

# Add moving averages as new features
gold["MA3"] = gold['Close'].rolling(window=3).mean()
gold["MA6"] = gold['Close'].rolling(window=6).mean()

# Add a daily (actually monthly) change feature
gold['Change'] = gold['Close'] - gold['Open']

# Drop rows with any remaining NaN values (from moving averages)
gold = gold.dropna()

# Show the updated dataframe
print(gold.head())

```

Missing values in each column:

Price Ticker

Close GC=F 0

High GC=F 0

Low GC=F 0

Open GC=F 0

Volume GC=F 0

dtype: int64

Price	Close	High	Low	Open	Volume	\
Ticker	GC=F	GC=F	GC=F	GC=F	GC=F	

Date

2015-12-01	1060.300049	1098.800049	1046.199951	1064.599976	10149	
------------	-------------	-------------	-------------	-------------	-------	--

2016-01-01	1116.400024	1125.699951	1063.199951	1063.400024	229558	
------------	-------------	-------------	-------------	-------------	--------	--

2016-02-01	1233.900024	1260.800049	1115.300049	1116.699951	13930	
------------	-------------	-------------	-------------	-------------	-------	--

2016-03-01	1234.199951	1280.699951	1210.000000	1240.500000	244751	
------------	-------------	-------------	-------------	-------------	--------	--

2016-04-01	1289.199951	1295.500000	1209.199951	1232.300049	9954	
------------	-------------	-------------	-------------	-------------	------	--

Price	MA3	MA6	Change
-------	-----	-----	--------

Ticker

Date

2015-12-01	1105.766683	1119.216675	-4.299927
------------	-------------	-------------	-----------

2016-01-01	1106.066691	1110.033346	53.000000
------------	-------------	-------------	-----------

2016-02-01	1136.866699	1133.200012	117.200073
------------	-------------	-------------	------------

2016-03-01	1194.833333	1150.300008	-6.300049
------------	-------------	-------------	-----------

2016-04-01	1252.433309	1179.250000	56.899902
------------	-------------	-------------	-----------

C:\Users\hp\AppData\Local\Temp\ipykernel\_20076\1612872133.py:10: FutureWarning: DataFrame.fillna with 'method' is deprecated and will raise in a future version. Use obj.ffill() or obj.bfill() instead.

```
gold = gold.fillna(method='ffill')
```

```
In [17]: # the features and target variable
feature_cols = ['Open', 'High', 'Low', 'Volume', 'MA3', 'MA6', 'Change']
X = gold[feature_cols]
y = gold['Close']
```

```
In [19]: #Split into train and test sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
```

```
In [21]: #Train your models
# Linear Regression
lr = LinearRegression()
lr.fit(X_train, y_train)
y_pred_lr = lr.predict(X_test)
```

```
In [23]: # Random Forest
rf = RandomForestRegressor()
rf.fit(X_train, y_train)
y_pred_rf = rf.predict(X_test)
```

C:\Users\hp\anaconda3\Lib\site-packages\sklearn\base.py:1474: DataConversionWarning: A column-vector y was passed when a 1d array was expected. Please change the shape of y to (n\_samples,), for example using ravel().

```
return fit_method(estimator, *args, **kwargs)
```



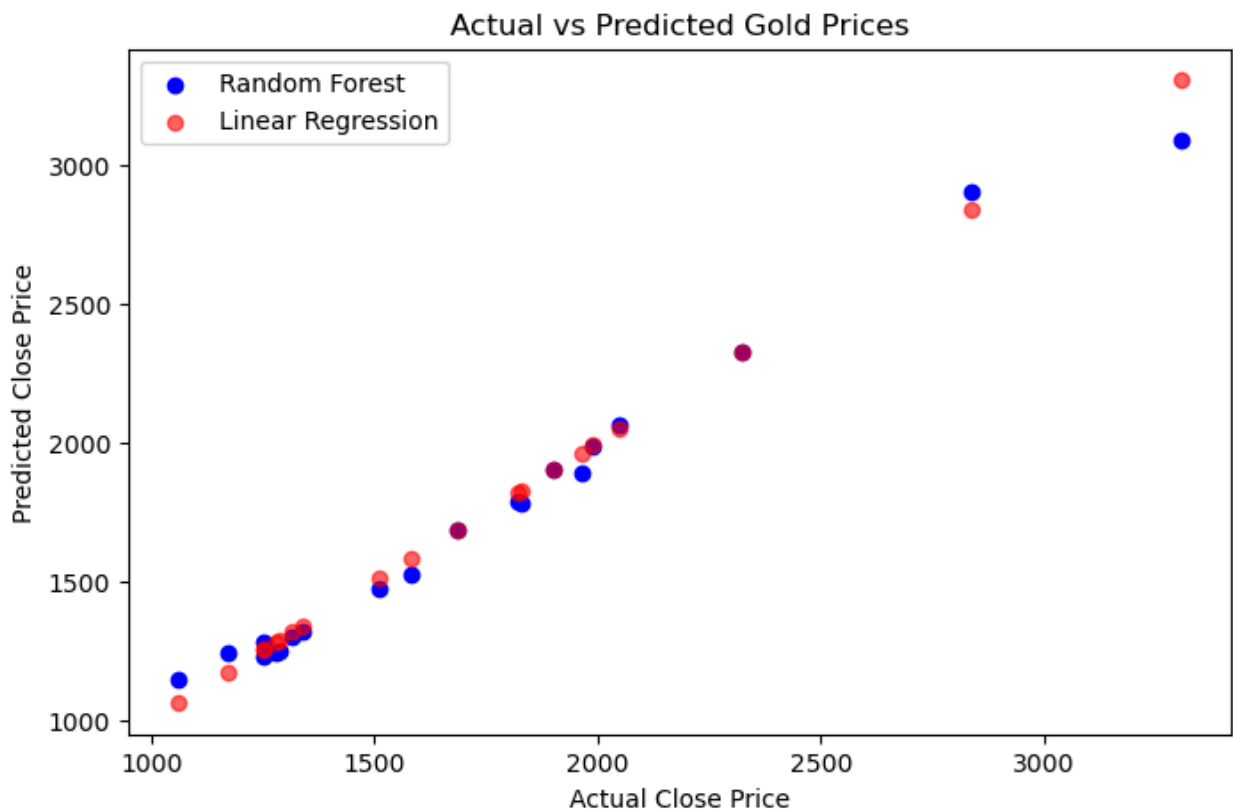
```
In [33]: #Evaluate the models
print("---- Linear Regression ----")
print("MAE:", mean_absolute_error(y_test, y_pred_lr))
print("MSE:", mean_squared_error(y_test, y_pred_lr))

print("\n---- Random Forest ----")
print("MAE:", mean_absolute_error(y_test, y_pred_rf))
print("MSE:", mean_squared_error(y_test, y_pred_rf))

---- Linear Regression ----
MAE: 2.0463630789890885e-12
MSE: 4.74077888569454e-24

---- Random Forest ----
MAE: 44.336398803710935
MSE: 4148.869159164642
```

```
In [35]: #Visualize actual vs predicted values
plt.figure(figsize=(8,5))
plt.scatter(y_test, y_pred_rf, color='blue', label='Random Forest')
plt.scatter(y_test, y_pred_lr, color='red', alpha=0.6, label='Linear Regression')
plt.xlabel('Actual Close Price')
plt.ylabel('Predicted Close Price')
plt.title('Actual vs Predicted Gold Prices')
plt.legend()
plt.show()
```



```
In [40]: pip install prophet
```

Requirement already satisfied: prophet in c:\users\hp\anaconda3\lib\site-packages (1.2.1)

Requirement already satisfied: cmdstanpy>=1.0.4 in c:\users\hp\anaconda3\lib\site-packages (from prophet) (1.3.0)

Requirement already satisfied: numpy>=1.15.4 in c:\users\hp\anaconda3\lib\site-packages (from prophet) (1.26.4)

Requirement already satisfied: matplotlib>=2.0.0 in c:\users\hp\anaconda3\lib\site-packages (from prophet) (3.8.4)

Requirement already satisfied: pandas>=1.0.4 in c:\users\hp\anaconda3\lib\site-packages (from prophet) (2.2.2)

Requirement already satisfied: holidays<1,>=0.25 in c:\users\hp\anaconda3\lib\site-packages (from prophet) (0.83)

Requirement already satisfied: tqdm>=4.36.1 in c:\users\hp\anaconda3\lib\site-packages (from prophet) (4.66.4)

Requirement already satisfied: importlib\_resources in c:\users\hp\anaconda3\lib\site-packages (from prophet) (6.5.2)

Requirement already satisfied: stanio<2.0.0,>=0.4.0 in c:\users\hp\anaconda3\lib\site-packages (from cmdstanpy>=1.0.4->prophet) (0.5.1)

Requirement already satisfied: python-dateutil in c:\users\hp\anaconda3\lib\site-packages (from holidays<1,>=0.25->prophet) (2.9.0.post0)

Requirement already satisfied: contourpy>=1.0.1 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.0.0->prophet) (1.2.0)

Requirement already satisfied: cycler>=0.10 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.0.0->prophet) (0.11.0)

Requirement already satisfied: fonttools>=4.22.0 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.0.0->prophet) (4.51.0)

Requirement already satisfied: kiwisolver>=1.3.1 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.0.0->prophet) (1.4.4)

Requirement already satisfied: packaging>=20.0 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.0.0->prophet) (23.2)

Requirement already satisfied: pillow>=8 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.0.0->prophet) (10.3.0)

Requirement already satisfied: pyparsing>=2.3.1 in c:\users\hp\anaconda3\lib\site-packages (from matplotlib>=2.0.0->prophet) (3.0.9)

Requirement already satisfied: pytz>=2020.1 in c:\users\hp\anaconda3\lib\site-packages (from pandas>=1.0.4->prophet) (2024.1)

Requirement already satisfied: tzdata>=2022.7 in c:\users\hp\anaconda3\lib\site-packages (from pandas>=1.0.4->prophet) (2023.3)

Requirement already satisfied: colorama in c:\users\hp\anaconda3\lib\site-packages (from tqdm>=4.36.1->prophet) (0.4.6)

Requirement already satisfied: six>=1.5 in c:\users\hp\anaconda3\lib\site-packages (from python-dateutil->holidays<1,>=0.25->prophet) (1.16.0)

Note: you may need to restart the kernel to use updated packages.

```
In [41]: from prophet import Prophet
import pandas as pd
import matplotlib.pyplot as plt

# Load your cleaned dataset
gold = pd.read_csv("gold_prices.csv", skiprows=[0,1])
gold.columns = ['Date', 'Close', 'High', 'Low', 'Open', 'Volume']
gold['Date'] = pd.to_datetime(gold['Date'])
gold = gold[['Date', 'Close']].dropna()
```

```

# Prophet needs columns named 'ds' (date) and 'y' (value)
data = gold.rename(columns={'Date': 'ds', 'Close': 'y'})

# Initialize and fit the model
model = Prophet()
model.fit(data)

# Create future dataframe for 10 years (120 months)
future = model.make_future_dataframe(periods=120, freq='M')

# Predict future values
forecast = model.predict(future)

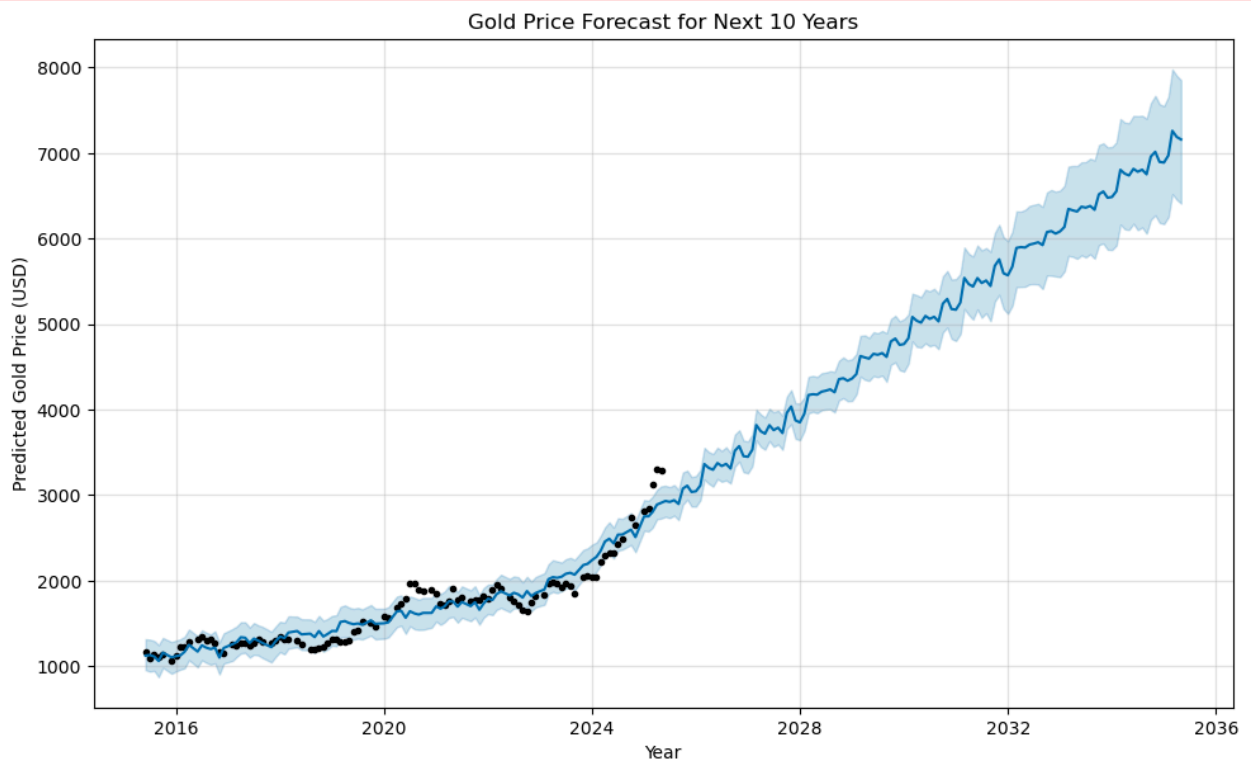
# Plot forecast
model.plot(forecast)
plt.title("Gold Price Forecast for Next 10 Years")
plt.xlabel("Year")
plt.ylabel("Predicted Gold Price (USD)")
plt.show()

```

```

12:04:39 - cmdstanpy - INFO - Chain [1] start processing
12:04:39 - cmdstanpy - INFO - Chain [1] done processing
C:\Users\hp\anaconda3\Lib\site-packages\prophet\forecaster.py:1872: FutureWarning: 'M' is deprecated and will be removed in a future version, please use 'ME' instead.
  dates = pd.date_range(

```



```
In [50]: !jupyter nbconvert --to html Gold_Price_Prediction_Forecasting.ipynb
```

```
[NbConvertApp] Converting notebook Gold_Price_Prediction_Forecasting.ipynb to h  
tml  
[NbConvertApp] WARNING | Alternative text is missing on 2 image(s).  
[NbConvertApp] Writing 465350 bytes to Gold_Price_Prediction_Forecasting.html
```