**STOCK PRICE PREDICTION**

* Certainly, here are the steps to perform the tasks you mentioned with the dataset named "MSFT.csv" and columns "date, open, high, low, close, adj close, volume":

**1. Importing the required libraries and reading the dataset:**

python

import pandas as pd

data = pd.read\_csv('MSFT.csv')

**2. Handling missing data using the ‘SimpleImputer’ from ‘sklearn.preprocessing’:**

python

from sklearn.impute import SimpleImputer

imputer = SimpleImputer(strategy='mean')

data[['open', 'high', 'low', 'close', 'adj close', 'volume']] = imputer.fit\_transform(data[['open', 'high', 'low', 'close', 'adj close', 'volume']])

**3. Encoding Categorical Data (if any, based on your dataset):**

* If there are categorical columns, you can encode them using one-hot encoding. Assuming there are no categorical columns in your dataset, you can skip this step.

**4. Splitting the dataset into training and testing sets:**

python

from sklearn.model\_selection import train\_test\_split

X = data[['open', 'high', 'low', 'close', 'adj close', 'volume']]

Y = data['target\_column\_name'] # Replace 'target\_column\_name' with the actual target column name

X\_train, X\_test, Y\_train, Y\_test = train\_test\_split(X, Y, test\_size=0.2, random\_state=42)

**5. Feature Scaling using ‘StandardScaler’:**

python

from sklearn.preprocessing import StandardScaler

scaler = StandardScaler()

X\_train = scaler.fit\_transform(X\_train)

X\_test = scaler.transform(X\_test)

* Now you've completed the steps for handling your dataset 'MSFT.csv' with the specified columns and tasks. Make sure to replace 'target\_column\_name' with the actual name of your target variable if you have one.