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from sklearn.ensemble import BaggingRegressor
from sklearn.ensemble import AdaBoostRegressor
from sklearn.ensemble import RandomForestRegressor
from sklearn.ensemble import GradientBoostingRegressor
from sklearn.ensemble import VotingRegressor
from sklearn.svm import SVR
import pandas as pd
from sklearn.linear_model import LinearRegression
from sklearn.linear_model import LogisticRegression
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import MinMaxScaler
from sklearn.tree import DecisionTreeRegressor
from sklearn.metrics import mean_squared_error
import matplotlib.pyplot as plt

# Modeling Dataset 3, which is dataset 2 with feature stacking
df = pd.read_excel("finalDataset.xlsx")
df1 = pd.read_excel("finalDataset.xlsx")
y = df['Profit']
del df['targetPrice']
# print(df)
x = df[df.columns[3:15]]
print(x)

scaler = MinMaxScaler()
x_train, x_test, y_train, y_test = train_test_split(x, y, test_size=0.3,
train_size=0.7, random_state=22222)
volume = x_test['Volume']
test_data = x_test

scaler.fit(x_train)
x_train = scaler.transform(x_train)
x_test = scaler.transform(x_test)

clf = LogisticRegression()
clf.fit(x_train, y_train)
train = clf.score(x_train, y_train)
test = clf.score(x_test, y_test)
print(train)
print(test)
```