XGBoost Home Price Prediction code

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# Importing necessary libraries
import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.metrics import mean_squared_error
import xgboost as xgb

# Load the dataset
data = pd.read_csv('home_prices_dataset.csv')

# Split the data into features and target variable
X = data.drop('Price', axis=1)
y = data['Price']

# Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)

# Train the XGBoost model
model = xgb.XGBRegressor(objective ='reg:squarederror',
                         colsample_bytree = 0.3,
                         learning_rate = 0.1,
                         max_depth = 5,
                         alpha = 10,
                         n_estimators = 100)
model.fit(X_train, y_train)

# Predict the test set
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y_pred = model.predict(X_test)

# Calculate the mean squared error
mse = mean_squared_error(y_test, y_pred)
print("Mean Squared Error:", mse)
```