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import pandas as pd
from sklearn.model selection import train test split
from sklearn.ensemble import RandomForestRegressor
from sklearn.metrics import mean squared error, r2 score
import matplotlib.pyplot as plt
df = pd.read csv('/content/drive/MyDrive/car prices dataset.csv')
print(df.head())
   Age (years)
                Mileage (miles) Price (dollars)
0
                                            20000
             1
                          10000
1
             2
                          25000
                                            18000
2
             3
                          35000
                                            15000
3
             4
                          50000
                                            13000
             5
                          60000
                                            10000
X = df[['Age (years)', 'Mileage (miles)']]
y = df['Price (dollars)']
X train, X test, y train, y test = train test split(X, y,
test size=0.2, random state=42)
rf regressor = RandomForestRegressor(n estimators=100,
random state=42)
rf regressor.fit(X train, y train)
RandomForestRegressor(random_state=42)
y pred = rf regressor.predict(X test)
mse = mean_squared_error(y_test, y_pred)
r2 = r2_score(y_test, y_pred)
print(f'Mean Squared Error (MSE): {mse}')
print(f'R-squared (R2): {r2}')
Mean Squared Error (MSE): 554000.0
R-squared (R2): 0.9886938775510205
feature importances = rf regressor.feature importances
features = X.columns
plt.figure(figsize=(10, 6))
plt.bar(features, feature importances, color='skyblue')
plt.xlabel('Features')
plt.ylabel('Importance')
plt.title('Feature Importance in Random Forest Model for Car Prices')
plt.show()
```

