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import pandas as pd
from sklearn.model selection import train test split
from sklearn.tree import DecisionTreeRegressor
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
             1
                          10000
                                            20000
1
             2
                          25000
                                            18000
2
             3
                          35000
                                            15000
3
             4
                          50000
                                            13000
4
             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)
dt regressor = DecisionTreeRegressor(random state=42)
dt regressor.fit(X train, y train)
DecisionTreeRegressor(random state=42)
y pred = dt 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): 5000000.0
R-squared (R2): 0.8979591836734694
plt.figure(figsize=(10, 8))
from sklearn.tree import plot tree
plot tree(dt regressor, feature names=X.columns, filled=True)
plt.title("Decision Tree Regression")
plt.show()
```

Decision Tree Regression

