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import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
from sklearn.tree import DecisionTreeRegressor
from sklearn.ensemble import RandomForestRegressor
from sklearn.metrics import mean_squared_error, r2_score

df = pd.read_csv('student_scores.csv')
df.columns = ['Hours_Studied', 'Test_Score']

X = df[['Hours_Studied']]
y = df['Test_Score']

X_train, X_test, y_train, y_test = train_test_split(X, y,
test_size=0.2, random_state=42)

dt_model = DecisionTreeRegressor(random_state=42)
dt_model.fit(X_train, y_train)
dt_pred = dt_model.predict(X_test)
dt_mse = mean_squared_error(y_test, dt_pred)
dt_r2 = r2_score(y_test, dt_pred)

rf_model = RandomForestRegressor(n_estimators=100, random_state=42)
rf_model.fit(X_train, y_train)
rf_pred = rf_model.predict(X_test)
rf_mse = mean_squared_error(y_test, rf_pred)
rf_r2 = r2_score(y_test, rf_pred)

print("Model Comparison:")
print("-" * 30)
print(f"Decision Tree Regressor:")
print(f"  Mean Squared Error (MSE): {dt_mse:.2f}")
print(f"  R-squared (R2) Score: {dt_r2:.2f}")
print("-" * 30)
print(f"Random Forest Regressor:")
print(f"  Mean Squared Error (MSE): {rf_mse:.2f}")
print(f"  R-squared (R2) Score: {rf_r2:.2f}")
print("-" * 30)

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Model Comparison:

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Decision Tree Regressor:

Mean Squared Error (MSE): 31.70

R-squared (R2) Score: 0.95  
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Random Forest Regressor:

Mean Squared Error (MSE): 13.05

R-squared (R2) Score: 0.98  
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