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In [ ]: import pandas as pd
import numpy as np
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.linear_model import LogisticRegression
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score, confusion_matrix
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In [ ]: data = pd.read_csv('heart_disease_uci.csv')
X = data.drop('target', axis=1)
y = data['target']
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
scaler = StandardScaler()
X_train = scaler.fit_transform(X_train)
X_test = scaler.transform(X_test)
lr = LogisticRegression()
dt = DecisionTreeClassifier()
rf = RandomForestClassifier()
lr.fit(X_train, y_train)
dt.fit(X_train, y_train)
rf.fit(X_train, y_train)
lr_pred = lr.predict(X_test)
dt_pred = dt.predict(X_test)
rf_pred = rf.predict(X_test)
print('Logistic Regression Accuracy:', accuracy_score(y_test, lr_pred))
print('Decision Tree Accuracy:', accuracy_score(y_test, dt_pred))
print('Random Forest Accuracy:', accuracy_score(y_test, rf_pred))
print('Confusion Matrix for Logistic Regression:')
print(confusion_matrix(y_test, lr_pred))
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