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import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from imblearn.over_sampling import SMOTE
from sklearn.ensemble import RandomForestClassifier
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import classification_report, confusion_matrix

data = pd.read_csv('creditcard.csv')

print(data.head())

X = data.drop('Class', axis=1)
y = data['Class']

smote = SMOTE(random_state=42)
X_resampled, y_resampled = smote.fit_resample(X, y)

scaler = StandardScaler()
X_resampled_scaled = scaler.fit_transform(X_resampled)

X_train, X_test, y_train, y_test = train_test_split(X_resampled_scaled, y_resampled,
test_size=0.2, random_state=42)

random_forest_model = RandomForestClassifier(random_state=42)
random_forest_model.fit(X_train, y_train)

y_pred_rf = random_forest_model.predict(X_test)
print("Random Forest Model:")
print(confusion_matrix(y_test, y_pred_rf))
print(classification_report(y_test, y_pred_rf))

logistic_regression_model = LogisticRegression(random_state=42)
logistic_regression_model.fit(X_train, y_train)

y_pred_lr = logistic_regression_model.predict(X_test)
print("\nLogistic Regression Model:")
print(confusion_matrix(y_test, y_pred_lr))
print(classification_report(y_test, y_pred_lr))

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