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import pandas as pd

from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import classification_report

# Simulated dataset (in real scenario, load a CSV with actual data)
# Columns: ['amount', 'oldbalanceOrg', 'newbalanceOrig', 'isFraud']
data = pd.DataFrame({
    'amount': [100, 5000, 20, 20000, 15],
    'oldbalanceOrg': [1000, 20000, 200, 30000, 150],
    'newbalanceOrig': [900, 15000, 180, 10000, 135],
    'isFraud': [0, 1, 0, 1, 0]
})

# Features and target
X = data[['amount', 'oldbalanceOrg', 'newbalanceOrig']]
y = data['isFraud']

# Split data
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.3, random_state=42)

# Train logistic regression model
model = LogisticRegression()
model.fit(X_train, y_train)

# Predict
y_pred = model.predict(X_test)

# Evaluate
print("Classification Report:")
print(classification_report(y_test, y_pred))
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# Predict a new transaction
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new_transaction = pd.DataFrame({
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    'amount': [10000],
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    'oldbalanceOrig': [25000],
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    'newbalanceOrig': [15000]
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})
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prediction = model.predict(new_transaction)[0]
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print("Is Fraud?" , "Yes" if prediction == 1 else "No")
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