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import streamlit as st
import pandas as pd
import joblib

model = joblib.load("fraud_detection_model.pkl")

st.title("Cesar Fraud Detection App")

st.markdown("Please input the transaction details below:")

st.divider()

transaction_type = st.selectbox("Transaction Type", ["PAYMENT", "TRANSFER", "CASH_OUT", "DEPOSIT"])

amount = st.number_input("Amount", min_value= 0.0, value = 1000.0)
oldbalanceOrg = st.number_input("Old Balance (sender)", min_value= 0.0, value = 10000.0)
newbalanceOrig = st.number_input("New Balance (sender)", min_value= 0.0, value = 9000.0)
oldbalanceDest = st.number_input("Old Balance (receiver)", min_value= 0.0, value = 0.0)
newbalanceDest = st.number_input("New Balance (receiver)", min_value= 0.0, value = 0.0)

if st.button("Predict Fraud"):
    input_data = pd.DataFrame([{"type": transaction_type,
                                "amount": amount,
                                "oldbalanceOrg": oldbalanceOrg,
                                "newbalanceOrig": newbalanceOrig,
                                "oldbalanceDest": oldbalanceDest,
                                "newbalanceDest": newbalanceDest
                                }])

    prediction = model.predict(input_data)[0]

    st.subheader(f"Prediction : '{int(prediction)}'")

    if prediction == 1:
        st.error("The transaction is predicted to be FRAUDULENT.")
    else:
        st.success("The transaction is predicted to be LEGITIMATE.")

# to run use: streamlit run fraud_detection.py

```