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import streamlit as st
import joblib
import numpy as np

# Load trained model and scaler
model = joblib.load("best_model.pkl")
scaler = joblib.load("scaler.pkl")

st.title("      | Loan Approval Prediction App")

# Input fields
gender_input = st.selectbox("Gender", ["Male", "Female"])
married_input = st.selectbox("Married", ["No", "Yes"])
dependents_input = st.selectbox("Dependents", ["0", "1", "2", "3+"])
education_input = st.selectbox("Education", ["Graduate", "Not Graduate"])
self_employed_input = st.selectbox("Self Employed", ["No", "Yes"])
applicant_income = st.number_input("Applicant Income", min_value=0)
coapplicant_income = st.number_input("Coapplicant Income", min_value=0)
loan_amount = st.number_input("Loan Amount (in 1000s)", min_value=0)
loan_amount_term = st.number_input("Loan Amount Term (in days)", min_value=0)
credit_history_input = st.selectbox("Credit History", ["1.0", "0.0"])
property_area_input = st.selectbox("Property Area", ["Urban", "Semiurban", "Rural"])

# Encoding (this part is CRUCIAL)
gender = 1 if gender_input == "Male" else 0
married = 1 if married_input == "Yes" else 0
dependents = 3 if dependents_input == "3+" else int(dependents_input)
education = 0 if education_input == "Graduate" else 1
self_employed = 1 if self_employed_input == "Yes" else 0
credit_history = float(credit_history_input)
property_area = {"Rural": 0, "Semiurban": 1, "Urban": 2}[property_area_input]

# Predict button
if st.button("Predict Loan Approval"):
    # Now input_data is fully numeric
    input_data = np.array([[gender, married, dependents, education, self_employed,
                             applicant_income, coapplicant_income, loan_amount,
                             loan_amount_term, credit_history, property_area]])

    input_scaled = scaler.transform(input_data)
    pred = model.predict(input_scaled)[0]

    if pred == 1:
        st.success("      ... Loan Approved")
    else:
        st.error("      Loan Rejected")

```