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import pandas as pd
from sklearn.ensemble import RandomForestClassifier
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import LabelEncoder

# Load data
data = pd.read_csv("EX10.csv")
data["Marital_Status"] = LabelEncoder().fit_transform(data["Marital_Status"])

# Split into input and output
attributes = data.drop("Eligible", axis=1)
target = data["Eligible"]

# Train-test split
attr_train, attr_test, target_train, target_test = train_test_split(attributes, target, test_size=0.2)

# Model training
model = RandomForestClassifier()
model.fit(attr_train, target_train)

# Example input
user = {
    "Age": 30,
    "Income": 40000,
    "Credit_Score": 700,
    "Loan_Amount": 10000,
    "Existing_Loans": 1,
    "Employment_Years": 5,
    "Marital_Status": 1,  # 0=Single, 1=Married, 2=Divorced
```

```
    "Has_House": 1,
    "Has_Car": 0
}

# Prediction
user_df = pd.DataFrame([user])
result = model.predict(user_df)[0]
print("Eligible" if result == 1 else "Not Eligible")
```