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import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.preprocessing import LabelEncoder
from sklearn.metrics import mean squared error, r2 score
df = pd.read_csv("IMDb Movies India.csv", encoding='ISO-8859-1')
df = df[['Genre', 'Director', 'Actor 1', 'Actor 2', 'Actor 3', 'Rating']]
df.dropna(inplace=True)
label encoders = {}
for col in ['Genre', 'Director', 'Actor 1', 'Actor 2', 'Actor 3']:
    le = LabelEncoder()
    df[col] = le.fit transform(df[col])
    label encoders[col] = le
X = df[['Genre', 'Director', 'Actor 1', 'Actor 2', 'Actor 3']]
y = df['Rating']
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2, random_state=42)
model = LinearRegression()
model.fit(X train, y train)
y_pred = model.predict(X_test)
print("Mean Squared Error (MSE):", mean_squared_error(y_test, y_pred))
print("R2 Score:", r2_score(y_test, y_pred))
```

Mean Squared Error (MSE): 1.8411821046939918
R² Score: 0.006290505818596137

+ Code

+ Text