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project

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```
[26] ✓ 0s df['LoanAmount'].fillna(df['LoanAmount'].mean(), inplace=True)
df['Loan_Amount_Term'].fillna(df['Loan_Amount_Term'].mean(), inplace=True)
df['Credit_History'].fillna(df['Credit_History'].mean(), inplace=True)

[27] ✓ 0s #Encoding Categorical Cols

[28] ✓ 0s enc = LabelEncoder()
for i in ['Gender', 'Married', 'Education', 'Self_Employed', 'Property_Area', 'Loan_Status']:
    df[i] = enc.fit_transform(df[i])

[29] ✓ 0s #Data Split into Training & Testing

[30] ✓ 0s X = df.drop(['Loan_ID', 'Loan_Status', 'Dependents'], axis=1)
y = df['Loan_Status']

X_train,X_test, y_train,y_test = train_test_split(X,y , test_size=0.3)
print(f"X_train Shape: {X_train.shape}")
print(f"Y_train Shape: {y_train.shape}")
print(f"X_test Shape: {X_test.shape}")
print(f"y_test Shape: {y_test.shape}")

X_train Shape: (429, 10)
Y_train Shape: (429,)
X_test Shape: (185, 10)
y_test Shape: (185,)

[31] ✓ 0s #Models Building
```

Variables Terminal 5:43PM Python 3

28°C Partly cloudy







