4}

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.feature_selection import chi2
from sklearn.preprocessing import LabelEncoder

df = pd.read_csv('loandata.csv')
df.head()

df = df[['Gender','Married','Dependents','Education','Self_Employed',
        'Credit_History','Property_Area','Loan_Status']]
df.head()
for col in df.columns:
    le = LabelEncoder()
    df[col] = le.fit_transform(df[col])
df.head()
x = df.iloc[:, 0:6]
y = df.iloc[:, -1]

f_score = chi2(x, y)
f_scorep_value = pd.Series(f_score[1], index=x.columns)
p_value.sort_values(ascending=False, inplace=True)
p_value
p_value.plot(kind="bar")
plt.xlabel("Features", fontsize=20)
plt.ylabel("p_values", fontsize=20)
plt.title("chi squared test based on p value")
plt.show()
```