lab1-datamining-211220051

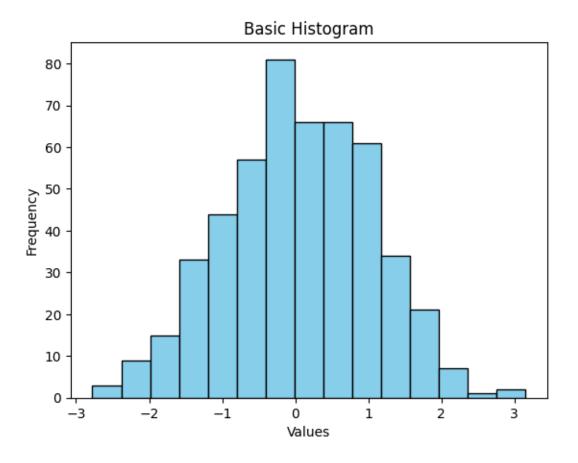
April 29, 2024

```
[]: import matplotlib.pyplot as plt
import numpy as np

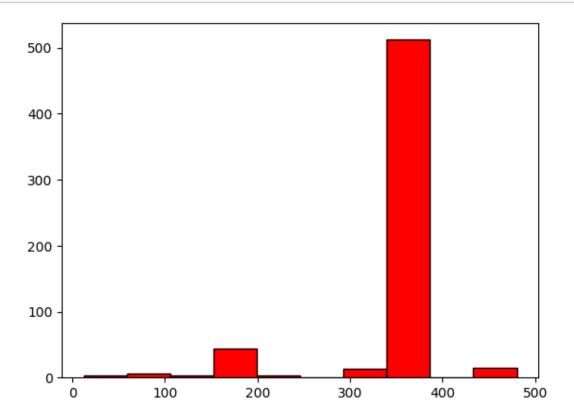
# Generate random data for the histogram
data = np.random.randn(500)
# print(data)
# Plotting a basic histogram
plt.hist(data, bins=15, color='skyblue', edgecolor='black')

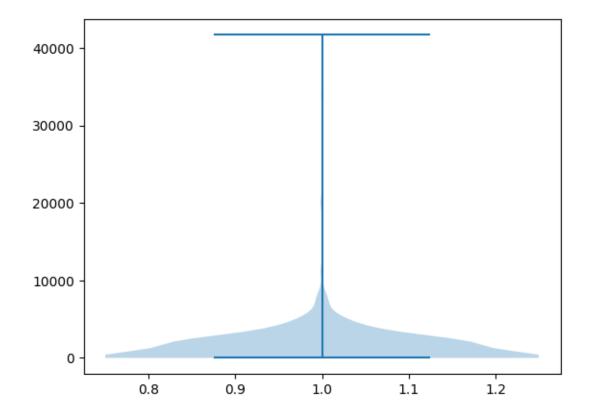
# Adding labels and title
plt.xlabel('Values')
plt.ylabel('Frequency')
plt.title('Basic Histogram')

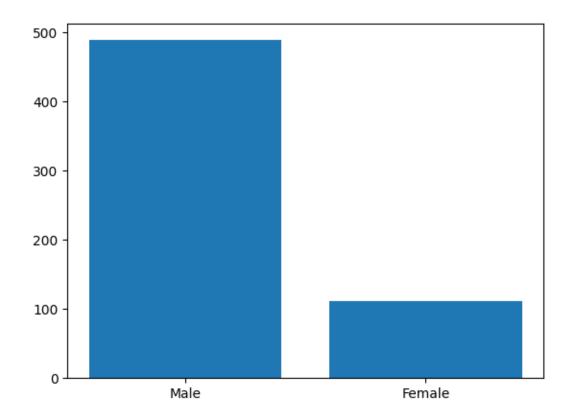
# Display the plot
plt.show()
```











```
[]: import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
import seaborn as sns

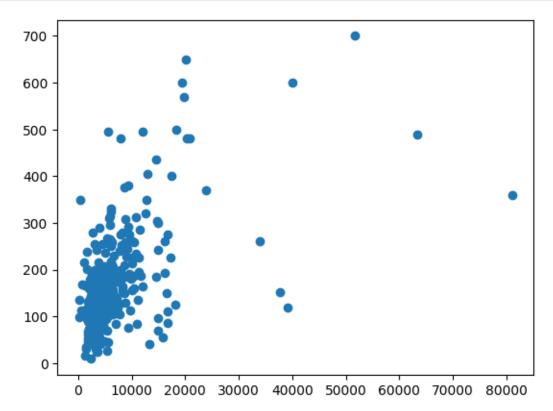
data = pd.read_csv('/content/train_u6lujuX_CVtuZ9i.csv')

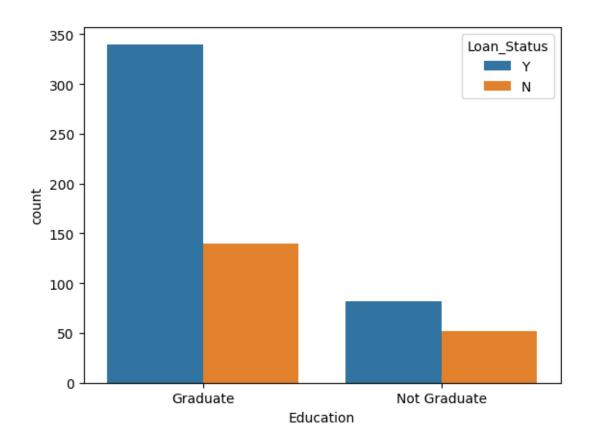
#BIVARIATE PLOTS - 1. Scatterplot 2. Count Plot 3. Bar Plot

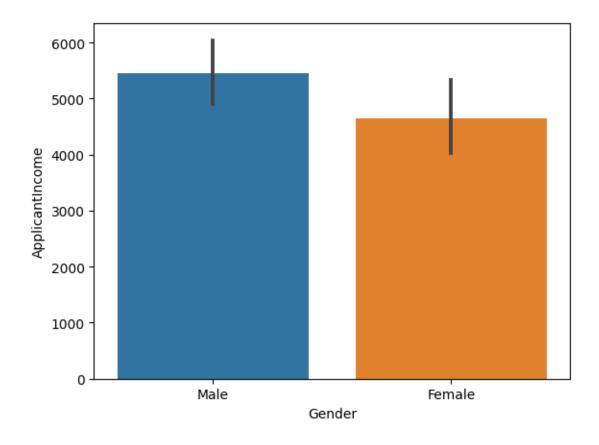
#scatterplot
plt.scatter(data['ApplicantIncome'], data['LoanAmount'])
plt.show()

#count plot
sns.countplot(x = 'Education', hue = 'Loan_Status', data = data)
plt.show()

#bar plot
sns.barplot(x = 'Gender', y = 'ApplicantIncome', data = data)
plt.show()
```







<ipython-input-67-bf64d3ec8922>:11: FutureWarning: The default value of
numeric_only in DataFrame.corr is deprecated. In a future version, it will
default to False. Select only valid columns or specify the value of numeric_only

to silence this warning.
sns.heatmap(data = data.corr(), annot = True)



