```python
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

df = pd.read_csv(r'C:\\Users\\Leander Chris\\OneDrive\\Desktop\\
PRODIGY_DS_01\\
Metadata_Country_API_SP.POP.TOTL_DS2_en_csv_v2_21117.csv')

print(df)
```

```
    Country Code                      Region            IncomeGroup  \
0            ABW   Latin America & Caribbean           High income
1            AFE                         NaN                   NaN
2            AFG                  South Asia            Low income
3            AFW                         NaN                   NaN
4            AGO          Sub-Saharan Africa  Lower middle income
..           ...                         ...                   ...
260          XKX       Europe & Central Asia  Upper middle income
261          YEM  Middle East & North Africa           Low income
262          ZAF          Sub-Saharan Africa  Upper middle income
263          ZMB          Sub-Saharan Africa  Lower middle income
264          ZWE          Sub-Saharan Africa  Lower middle income

                                           SpecialNotes  \
0                                                   NaN
1      26 countries, stretching from the Red Sea in t...
2      The reporting period for national accounts dat...
3      22 countries, stretching from the westernmost ...
4      The World Bank systematically assesses the app...
..                                                   ...
260                                                 NaN
261    The World Bank systematically assesses the app...
262    Fiscal year end: March 31; reporting period fo...
263    National accounts data were rebased to reflect...
264    National Accounts data are reported in Zimbabw...

                      TableName  Unnamed: 5
0                         Aruba         NaN
1      Africa Eastern and Southern         NaN
2                   Afghanistan         NaN
3      Africa Western and Central         NaN
4                        Angola         NaN
..                          ...         ...
260                      Kosovo         NaN
261                 Yemen, Rep.         NaN
262                South Africa         NaN
263                      Zambia         NaN
264                    Zimbabwe         NaN

[265 rows x 6 columns]
```
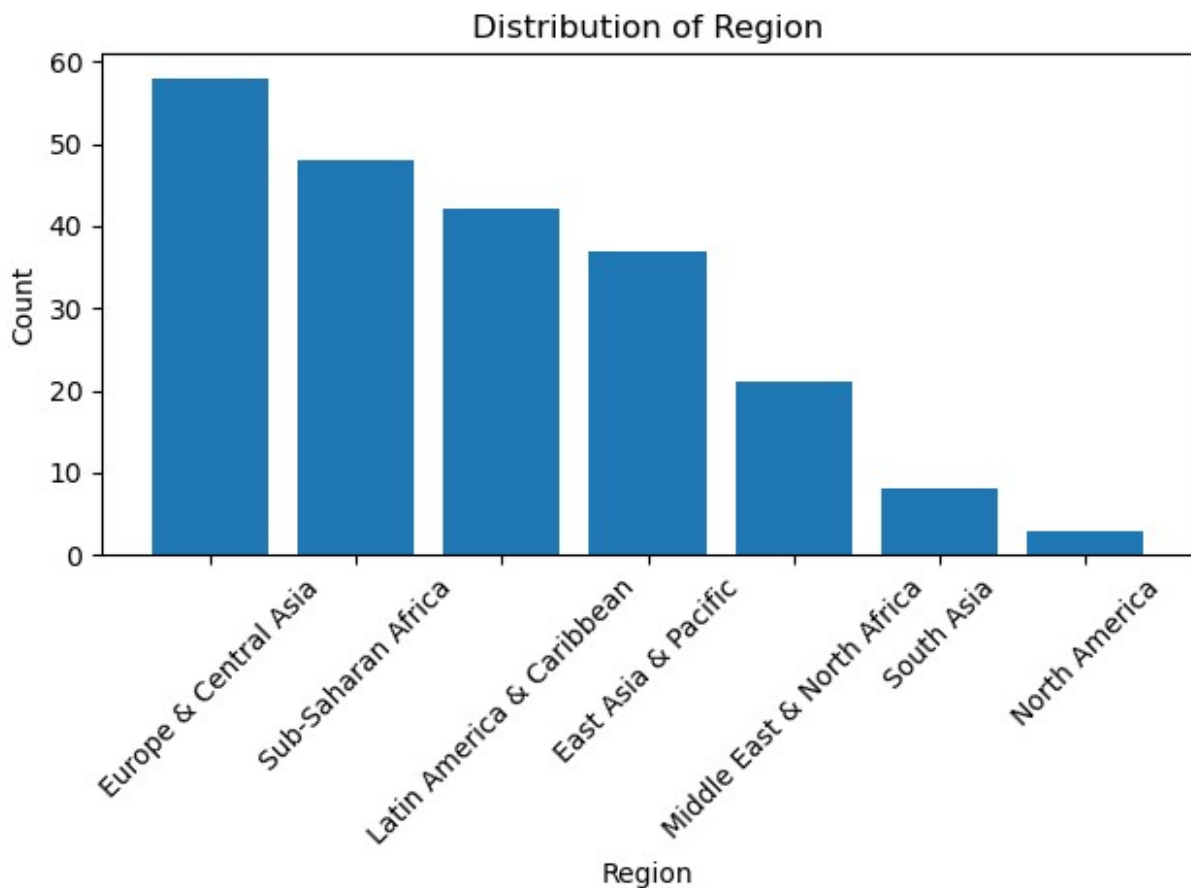
```
gender_counts = df['Region'].value_counts()
bar_width = 0.9
x=range(len(gender_counts.index))

plt.bar(gender_counts.index, gender_counts.values)
plt.xlabel('Region')
plt.ylabel('Count')
plt.title('Distribution of Region')

plt.xticks(x,gender_counts.index, rotation = 45)
plt.tight_layout()
plt.show()
```


Distribution of Region

```
df.shape

(265, 6)

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 265 entries, 0 to 264
Data columns (total 6 columns):
```

```
 #   Column        Non-Null Count  Dtype
---  ------        --------------  -----
 0   Country Code  265 non-null    object
 1   Region        217 non-null    object
 2   IncomeGroup   216 non-null    object
 3   SpecialNotes  127 non-null    object
 4   TableName     265 non-null    object
 5   Unnamed: 5    0 non-null      float64
dtypes: float64(1), object(5)
memory usage: 12.6+ KB

df.describe()

       Unnamed: 5
count         0.0
mean          NaN
std           NaN
min           NaN
25%           NaN
50%           NaN
75%           NaN
max           NaN

df.isnull().sum()

Country Code       0
Region            48
IncomeGroup       49
SpecialNotes     138
TableName          0
Unnamed: 5       265
dtype: int64

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 265 entries, 0 to 264
Data columns (total 6 columns):
 #   Column        Non-Null Count  Dtype
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