

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

df = pd.read_csv(r"C:\\Users\\jayaraman\\OneDrive\\Pictures\\Desktop\\
Data science internship\\
Metadata_Country_API_SP.POP.TOTL_DS2_en_csv_v2_5871594.csv")
```

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

```
[265 rows x 5 columns]
```

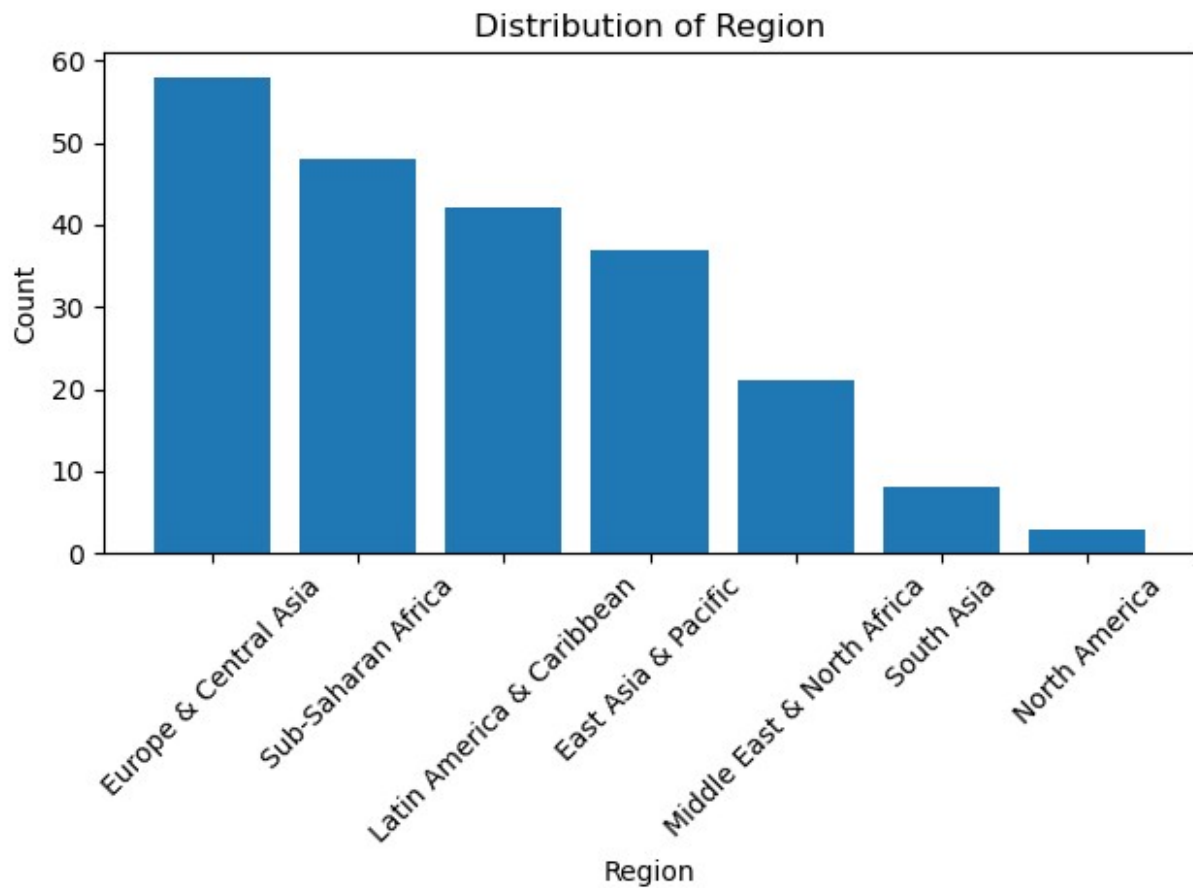
```

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()

```



```

df.shape
(265, 5)
df.info()

```

```

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 265 entries, 0 to 264
Data columns (total 5 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    126 non-null   object
4   TableName       265 non-null   object
dtypes: object(5)
memory usage: 10.5+ KB

```

```
df.describe()
```

	Country Code	Region	IncomeGroup
count	265	217	216
unique	265	7	4
top	ABW	Europe & Central Asia	High income
freq	1	58	82

	SpecialNotes	TableName
count	126	265
unique	111	265
top	The reporting period for national accounts dat...	Aruba
freq	7	1

```
df.isnull().sum()
```

```

Country Code    0
Region          48
IncomeGroup     49
SpecialNotes    139
TableName       0
dtype: int64

```