PODIGY INFOTECH

PRODIGY_DS_01

ANKIT BHARDWAJ | DATA SCIENCE INTERN

jupyter Untitled Last Checkpoint: 6 minutes ago

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Code

JupyterLab Python 3 (ipykernel)

[57]:
```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
```

[59]:
```
df = pd.read_csv("Metadata_Country_API_SP.POP.TOTL_DS2_en_csv_v2_5871594.csv")
```

[61]:
```
df
```

[61]:

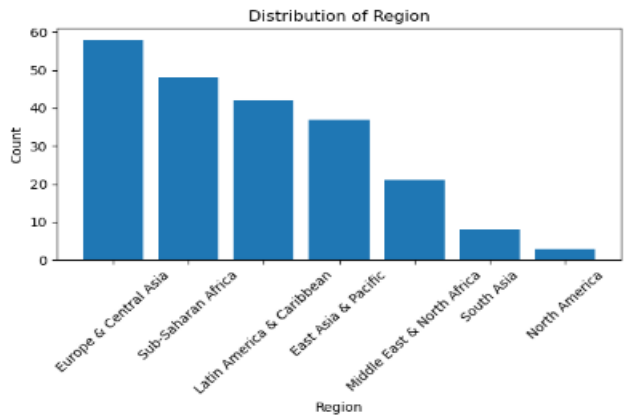
	Country Code	Region	IncomeGroup	SpecialNotes	TableName	Unnamed: 5
0	ABW	Latin America & Caribbean	High income	NaN	Aruba	NaN
1	AFE	NaN	NaN	26 countries, stretching from the Red Sea in t...	Africa Eastern and Southern	NaN
2	AFG	South Asia	Low income	The reporting period for national accounts dat...	Afghanistan	NaN
3	AFW	NaN	NaN	22 countries, stretching from the westernmost ...	Africa Western and Central	NaN
4	AGO	Sub-Saharan Africa	Lower middle income	The World Bank systematically assesses the app...	Angola	NaN
...	...	...	...	...	...	...
260	XKX	Europe & Central Asia	Upper middle income	NaN	Kosovo	NaN
261	YEM	Middle East & North Africa	Low income	The World Bank systematically assesses the app...	Yemen, Rep.	NaN
262	ZAF	Sub-Saharan Africa	Upper middle income	Fiscal year end: March 31; reporting period fo...	South Africa	NaN
263	ZMB	Sub-Saharan Africa	Lower middle income	National accounts data were rebased to reflect...	Zambia	NaN
264	ZWE	Sub-Saharan Africa	Lower middle income	National Accounts data are reported in Zimbabw...	Zimbabwe	NaN

265 rows × 6 columns

[63]:
```
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()
```



[65]:
```
df.shape
```

[65]:
```
(265, 6)
```

[67]:
```
df.info
```

[67]:
```
<bound method DataFrame.info of     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]>
```

[69]:
```
df.describe()
```

[69]:

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

[71]:
```
df.isnull().sum()
```

[71]:
```
Country Code      0
Region           48
IncomeGroup      49
SpecialNotes    138
TableName         0
Unnamed: 5      265
dtype: int64
```

[73]:
```
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
```

[ ]: