billionairies

February 27, 2022

1 Libraries

[1]:
```
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import warnings
warnings.filterwarnings("ignore")
```

2 Dataset

[2]:
```
data = pd.read_csv('Billionaire.csv')
```

[3]:
```
data.head()
```

[3]:

	Name	NetWorth	Country	Source	Rank	Age	Industry
0	Jeff Bezos	$177 B	United States	Amazon	1	57.0	Technology
1	Elon Musk	$151 B	United States	Tesla, SpaceX	2	49.0	Automotive
2	Bernard Arnault & family	$150 B	France	LVMH	3	72.0	Fashion & Retail
3	Bill Gates	$124 B	United States	Microsoft	4	65.0	Technology
4	Mark Zuckerberg	$97 B	United States	Facebook	5	36.0	Technology

[4]:
```
data.isnull().sum()
```

[4]:
```
Name         0
NetWorth     0
Country      0
Source       0
Rank         0
Age         79
```

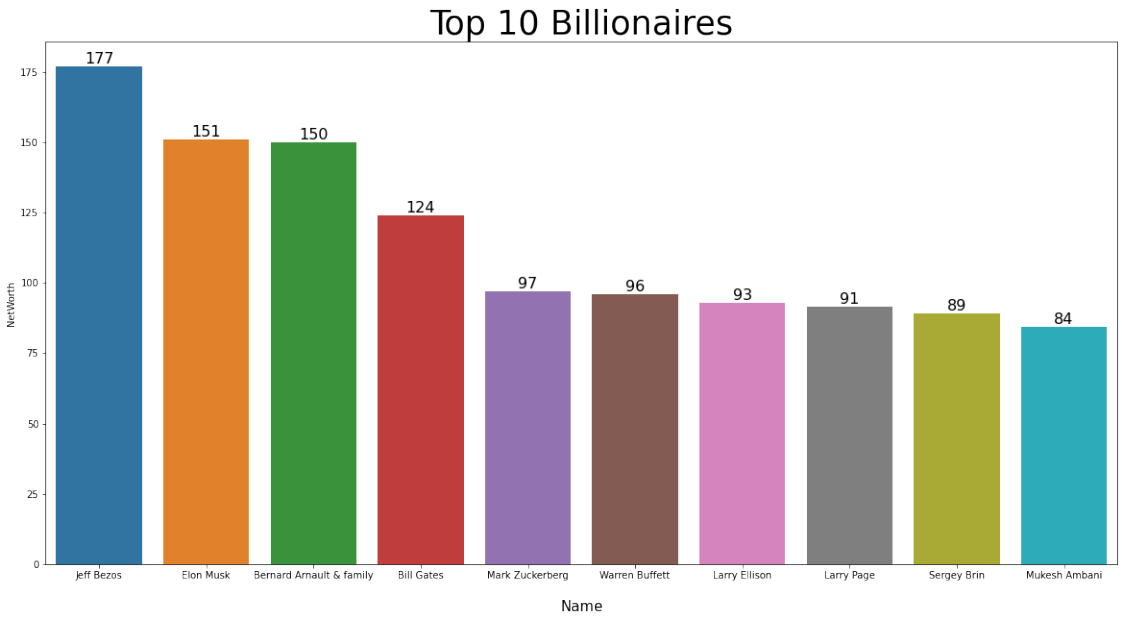
```
Industry     0
dtype: int64
```

[5]:
```
data = data.dropna()
```

[6]:
```
data["NetWorth"] = data["NetWorth"].str.strip("$")
data["NetWorth"] = data["NetWorth"].str.strip("B")
data["NetWorth"] = data["NetWorth"].astype(float)
```

3 Top 10 billionaires according to their NetWorth

[48]:
```
df = data.sort_values(by = ["NetWorth"], ascending=False).head(10)
plt.figure(figsize=(20, 10))
plt.title('Top 10 Billionaires', fontsize=35)
sns.barplot(x='Name', y='NetWorth', data= df)
plt.xlabel('Name', fontsize=15, labelpad=20)
ax = plt.gca()
for i in ax.patches:
    ax.text(i.get_x() + i.get_width()/2 , i.get_height(), '%d' %int(i.
 ↪get_height()), fontsize=16, ha='center', va='bottom')
plt.show()
```

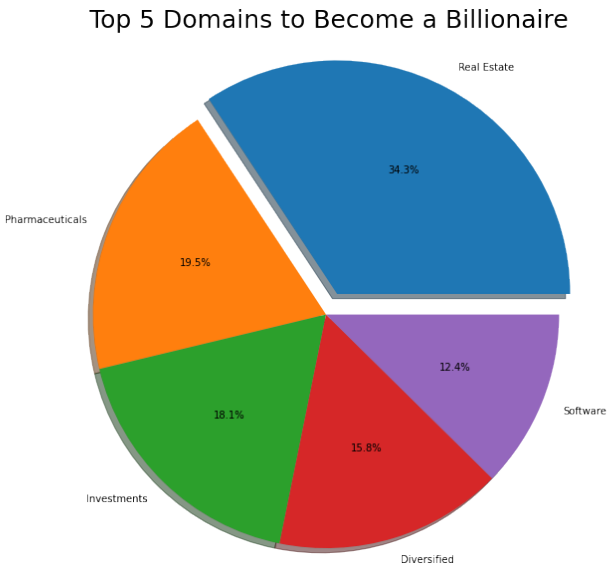


4 Top 5 domains with the most number of Billionaires

[8]:
```
data['Source'].value_counts().head()
```

[8]:
```
real estate        169
pharmaceuticals     96
investments         89
diversified         78
software            61
Name: Source, dtype: int64
```

[9]:
```
plt.figure(figsize=(20, 10))
plt.title("Top 5 Domains to Become a Billionaire", fontsize=25)
labels = 'Real Estate', 'Pharmaceuticals', 'Investments', 'Diversified',␣
 ↪'Software'
sizes = [169, 96, 89, 78, 61]
explode = [0.1, 0, 0, 0, 0]
plt.pie(sizes, labels = labels, explode = explode, shadow=True, startangle=0,␣
 ↪autopct='%1.1f%%',  );
plt.axis('equal');
```



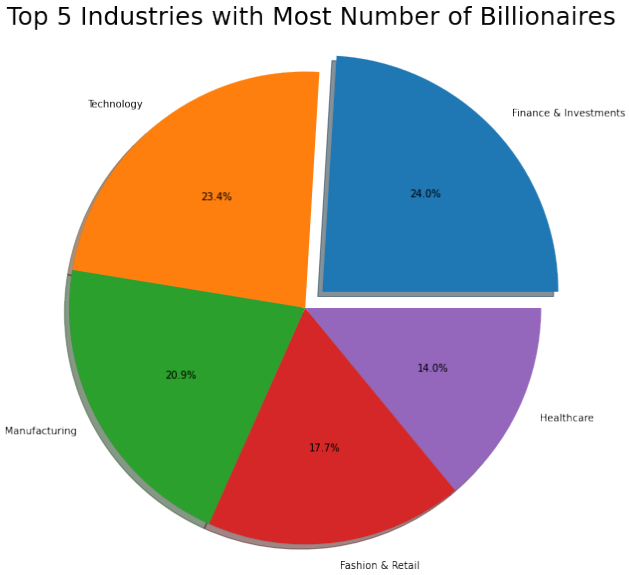
5 Top 5 industries with the most number of Billionaires

[10]:
```
data['Industry'].value_counts().head()
```

[10]:
```
Finance & Investments    365
Technology               355
```

```
Manufacturing            317
Fashion & Retail         268
Healthcare               213
Name: Industry, dtype: int64
```

[11]:
```
plt.figure(figsize=(20, 10))
plt.title("Top 5 Industries with Most Number of Billionaires", fontsize=25)
labels = 'Finance & Investments', 'Technology', 'Manufacturing', 'Fashion &␣
↪Retail', 'Healthcare'
sizes = [365, 355, 317, 268, 213]
explode = [0.1, 0, 0, 0, 0]
plt.pie(sizes, labels = labels, explode = explode, shadow=True, startangle=0,␣
↪autopct='%1.1f%%',  );
plt.axis('equal');
```

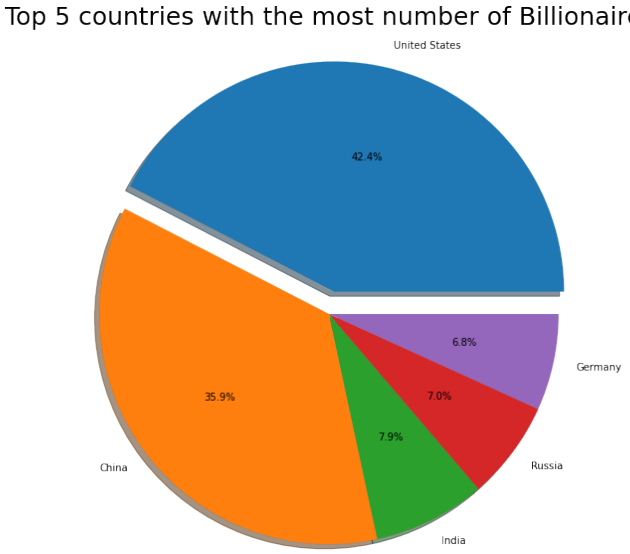


6 Top 5 countries with the most number of Billionaires

[12]:
```
data['Country'].value_counts().head()
```

[12]:
```
United States    720
China            610
India            134
Russia           118
Germany          115
Name: Country, dtype: int64
```

[13]:
```
plt.figure(figsize=(20, 10))
plt.title("Top 5 countries with the most number of Billionaires", fontsize=25)
labels = 'United States', 'China', 'India', 'Russia', 'Germany'
sizes = [720, 610, 134, 118, 115]
explode = [0.1, 0, 0, 0, 0]
plt.pie(sizes, labels = labels, explode = explode, shadow=True, startangle=0,␣
↪autopct='%1.1f%%',  );
plt.axis('equal');
```



7 Summary

[14]:
```
'''So this is how you can find patterns among billionaires around the world to␣
↪analyze the business environment of countries. The success of a business or␣
↪startup depends a lot on the business environment of a country. At the end␣
↪of the analysis of global billionaires, I found that China and the United␣
↪States are the countries with the most billionaires which concludes that the␣
↪business environment and the success rate of a startup is much better in the␣
↪US and China than in the rest of the world'''
```

[14]:
```
'So this is how you can find patterns among billionaires around the world to
analyze the business environment of countries. The success of a business or
startup depends a lot on the business environment of a country. At the end of
the analysis of global billionaires, I found that China and the United States
are the countries with the most billionaires which concludes that the business
environment and the success rate of a startup is much better in the US and China
than in the rest of the world'
```