Each year, Forbes employs a team of over 50 reporters from a variety of countries to track the activity of the world's wealthiest individuals and sometimes groups or families – who share wealth. Preliminary surveys are sent to those who may qualify for the list. **EDA Process** In [1]: #Importing neccessary libraires import numpy as np import pandas as pd import matplotlib.pyplot as plt %matplotlib inline import plotly.express as px import plotly.io as pio In [2]: df = pd.read_csv('Forbes Billionaires.csv') df Out[2]: Rank Source Industry Name Networth Age Country Elon Musk 219.0 50 United States 0 1 Tesla, SpaceX Automotive Jeff Bezos 171.0 58 United States Amazon Technology 2 158.0 73 LVMH Fashion & Retail Bernard Arnault & family France Bill Gates 129.0 66 United States Microsoft Technology **4** 5 Warren Buffett 118.0 91 United States Berkshire Hathaway Finance & Investments Jorge Gallardo Ballart 1.0 80 Spain pharmaceuticals Healthcare **2595** 2578 **2596** 2578 Nari Genomal 1.0 82 Philippines apparel Fashion & Retail Fashion & Retail **2597** 2578 Ramesh Genomal 1.0 71 Philippines apparel **2598** 2578 Sunder Genomal 1.0 68 Philippines garments Fashion & Retail 1.0 69 Germany flavors and fragrances Food & Beverage **2599** 2578 Horst-Otto Gerberding 2600 rows × 7 columns In [3]: # checking the information of the dataframe df.info() <class 'pandas.core.frame.DataFrame'> RangeIndex: 2600 entries, 0 to 2599 Data columns (total 7 columns): # Column Non-Null Count Dtype --- -----0 Rank 2600 non-null int64 1 Name 2600 non-null object 2 Networth 2600 non-null float64 3 Age 2600 non-null int64 4 Country 2600 non-null object 5 Source 2600 non-null object 6 Industry 2600 non-null object dtypes: float64(1), int64(2), object(4) memory usage: 142.3+ KB Let's see who has the highest net worth In [4]: # checking any null values df.isnull().sum() Name Networth Age Country Source Industry dtype: int64 We haven't got any null values in the dataset. The data is clean In [5]: # checking the data type of each column df.dtypes int64 Rank Out[5]: object Name float64 Networth int64 Country object Source object Industry object dtype: object In [6]: df.loc[df.Networth == df['Networth'].max()] Name Networth Age Industry Out[6]: Source 1 Elon Musk 219.0 50 United States Tesla, SpaceX Automotive Let's see who is the youngest billionaire In [7]: df.loc[df.Age == df['Age'].min()] Out[7]: Name Networth Age Country Source Industry **1311** 1292 Kevin David Lehmann 2.4 19 Germany drugstores Fashion & Retail And who's the oldest among them In [8]: # Youngest Billionaire df.loc[df.Age == df['Age'].max()] Out[8]: Rank Name Networth Age Country Source Industry **1681** 1645 George Joseph 1.8 100 United States insurance Finance & Investments Let's see which country the billionaires belong to In [9]: # creating a pie-chart of the countries where billionaires are from # plt.pie(df.Country.value_counts(), labels=df.Country.value_counts().head(20).index, autopct='%1.1f%%') df['Country'].value_counts().head(20).plot(kind = 'pie', figsize = (6,6)) Out[9]: <AxesSubplot:ylabel='Country'> United States China Thailand Israel Indonesia lapan Switzerland France Australia Russia United Kingdom Hong Kongnada Brazilaly Let's look at the net worth of billionaires in the top 5 countries In [10]: pio.templates.default = "plotly_dark" dfg = df['Country'].value_counts().head(5) # plotting the bar-chart in plotly import plotly.graph_objects as px fig = px.Figure(data=[px.Bar(x=dfg.index, y=dfg)], layout=px.Layout(title='Top 5 countries with the highest number of billionaires')) # adding labels fig.update_xaxes(title_text='Countries') fig.update_yaxes(title_text='Number of billionaires') fig.show() Top 5 countries with the highest number of billionaires 700 600 Number of billionaires 500 400 300 200 100 **United States** China Countries We can see that the billionaires are mostly from the US, China, and India. Now let's see the distribution of billionaires in India and get some insights. In [11]: # getting the top 5 billionaires in India # who has maximum networth and plotting a bar-chart in plolty df.loc[df.Country == 'India'].sort_values(by = 'Networth', ascending = False).head(5) # plotting the bar-chart in plotly import plotly.graph_objects as px # setting x axis as names of billionaires $x = df.loc[df.Country == 'India'].sort_values(by = 'Networth', ascending = False).head(5)['Name']$ fig = px.Figure(data=[px.Bar(x=x, y=df.loc[df.Country == 'India'].sort_values(by = 'Networth', ascending = False).head(5).Networth)], layout=px.Layout(title='Top 5 billionaires in India')) # adding labels fig.update_xaxes(title_text='Billionaires') fig.update_yaxes(title_text='Networth') # adding a legend fig.update_layout(legend=dict(x=0, y=1.05)) fig.show() Top 5 billionaires in India 30 20 10-Mukesh Ambani Gautam Adani & family Shiv Nadar Cyrus Poonawalla Radhakishan Damani Billionaires Let's look at Biillionaire distribution by Age and Net Worth In [12]: **import** plotly.express **as** px pio.templates.default = "plotly_dark" fig = px.bar(df, x = "Age", y = "Networth", color='Networth', title = "Billionaires by their age")Billionaires by their age Networth 200 600 500 400 300 200 100 In [13]: **import** plotly.express **as** px pio.templates.default = "plotly_white" Cumilative_Net_Industry=df.groupby(['Industry']).sum().sort_values('Networth', ascending = False) Cumilative_Net_Industry.reset_index(inplace = True) pio.templates.default = "plotly_dark" fig = px.bar(df, x = "Networth", y = "Industry", color='Industry', title = "Billionaires company")fig.show() Billionaires company Automotive Industry Technology Automotive Fashion & Retail Technology Finance & Investments Fashion & Retail diversified Finance & Investments Media & Entertainment diversified Telecom Media & Entertainment Food & Beverage Telecom Logistics Food & Beverage Real Estate Logistics Metals & Mining Real Estate Manufacturing Metals & Mining Gambling & Casinos Manufacturing Healthcare Gambling & Casinos Service Healthcare Energy Service Construction & Engineering Energy Sports Construction & Engineering 1000 1500 2000 Networth

Forbes Billionaires Dataset 2022

The World's Billionaires is an annual ranking by documented net worth of the wealthiest billionaires in the world, compiled and published in March annually by the American business magazine Forbes.