Final Project

Global Billionaire Demographics, Trends and Insights

Team Members:

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Introduction:

Billionaires Statistics encapsulates a comprehensive repository of detailed information concerning individuals worldwide who have achieved billionaire status. This dataset intricately records their immense wealth, delineating net worth in billions, sources of wealth across various industries, and significant investments or holdings. Alongside financial data, demographic insights portray age, gender distribution, nationality, and cultural backgrounds. Professional details highlight their roles as business founders, CEOs, investors, and educational backgrounds. Moreover, it encompasses philanthropic endeavours, personal interests, and family backgrounds. Analysing this data unveils trends in wealth accumulation, gender and age disparities, industry influences, and societal impacts, offering invaluable insights into global wealth distribution and individual success trajectories.

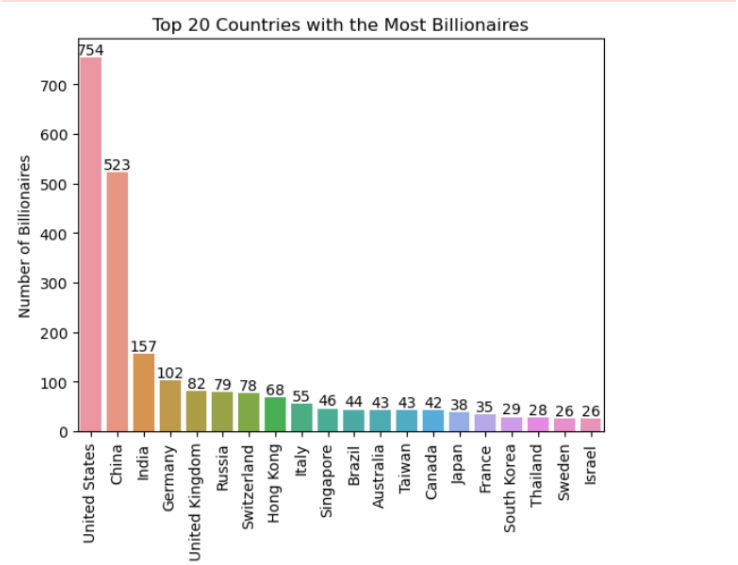
Dataset:

The dataset contains 2641 rows and 35 columns. Each columns represent the details of the Billionaires.

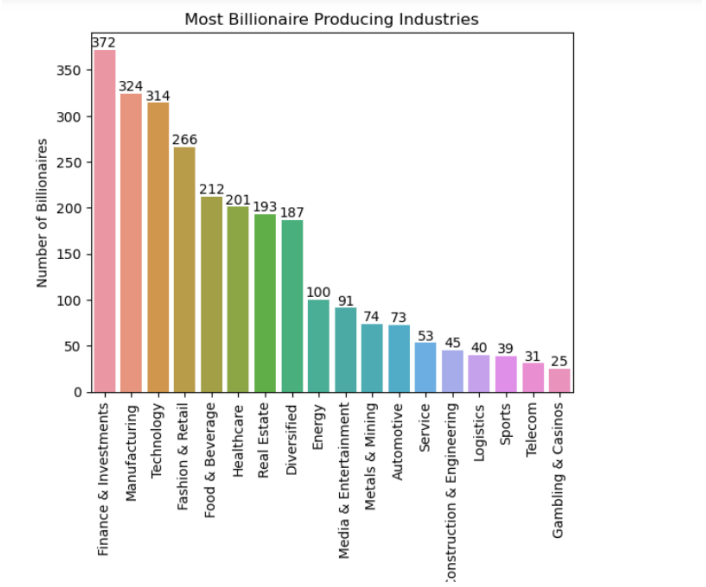
Data Type of Features:

0	rank	2640 non-null	int64
1	finalWorth	2640 non-null	int64
2	category	2640 non-null	object
3	personName	2640 non-null	object
4	age	2575 non-null	float64
5	country	2602 non-null	object
6	city	2568 non-null	object
7	source	2640 non-null	object
8	industries	2640 non-null	object
9	countryOfCitizenship	2640 non-null	object
10	organization	325 non-null	object
11	selfMade	2640 non-null	bool
12	status	2640 non-null	object
13	gender	2640 non-null	object
14	birthDate	2564 non-null	object
15	lastName	2640 non-null	object
16	firstName	2637 non-null	object
17	title	339 non-null	object
18	date	2640 non-null	object
19	state	753 non-null	object
20	residenceStateRegion	747 non-null	object
21	birthYear	2564 non-null	float64
22	birthMonth	2564 non-null	float64
23	birthDay	2564 non-null	float64
24	cpi_country	2456 non-null	float64
25	cpi_change_country	2456 non-null	float64
26	gdp_country	2476 non-null	object
27	gross_tertiary_education_enrollment	2458 non-null	float64
28	gross_primary_education_enrollment_country	2459 non-null	float64
29	life_expectancy_country	2458 non-null	float64
30	tax_revenue_country_country	2457 non-null	float64
31	total_tax_rate_country	2458 non-null	float64
32	population_country	2476 non-null	float64
33	latitude_country	2476 non-null	float64
34	longitude_country	2476 non-null	float64

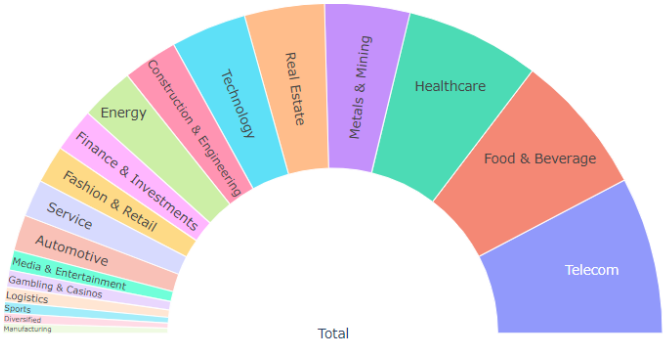
Exploratory Data Analysis



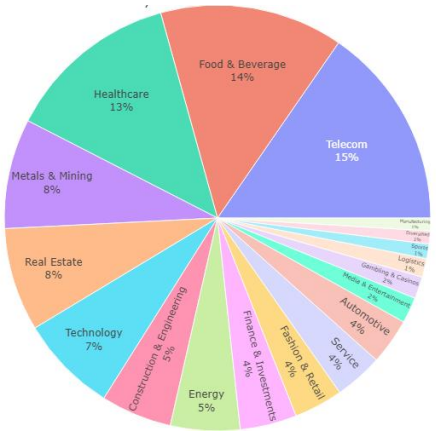
The United States and China have the most billionaires in the world, with 754 and 700 billionaires respectively. The top 10 countries account for over two-thirds of all billionaires in the world. The number of billionaires in a country is generally correlated with its economic size and development, as well as the presence of favourable business conditions.



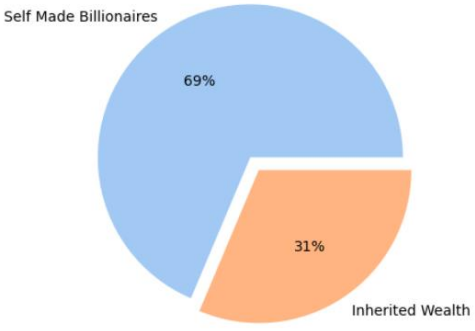
An exploration of billionaire distribution across industries in the United States reveals that finance and investments, manufacturing, technology, fashion and retail, food and beverage, healthcare, real estate, and diversified industries stand out as the primary wealth generators. This highlights the diverse pathways to wealth creation in the country.



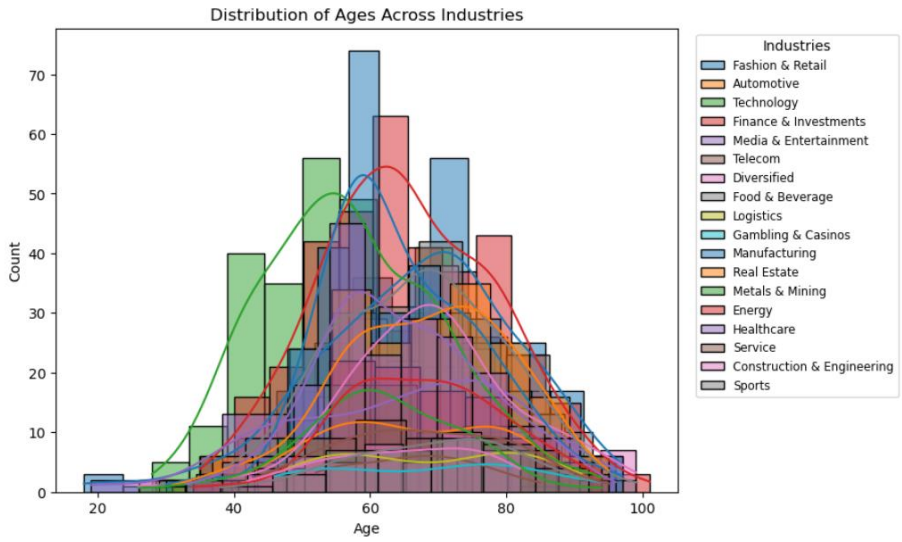
The distribution of billionaires across industries in the United States reveals a concentration of wealth in a few dominant sectors, primarily finance and investments, manufacturing, technology, and fashion and retail. This indicates the significance of these industries in driving the nation's economic growth and generating substantial wealth. While innovation and entrepreneurship are key factors in wealth creation, the unequal distribution of wealth across industries highlights the need for policies that foster economic equality and support diverse opportunities for wealth accumulation



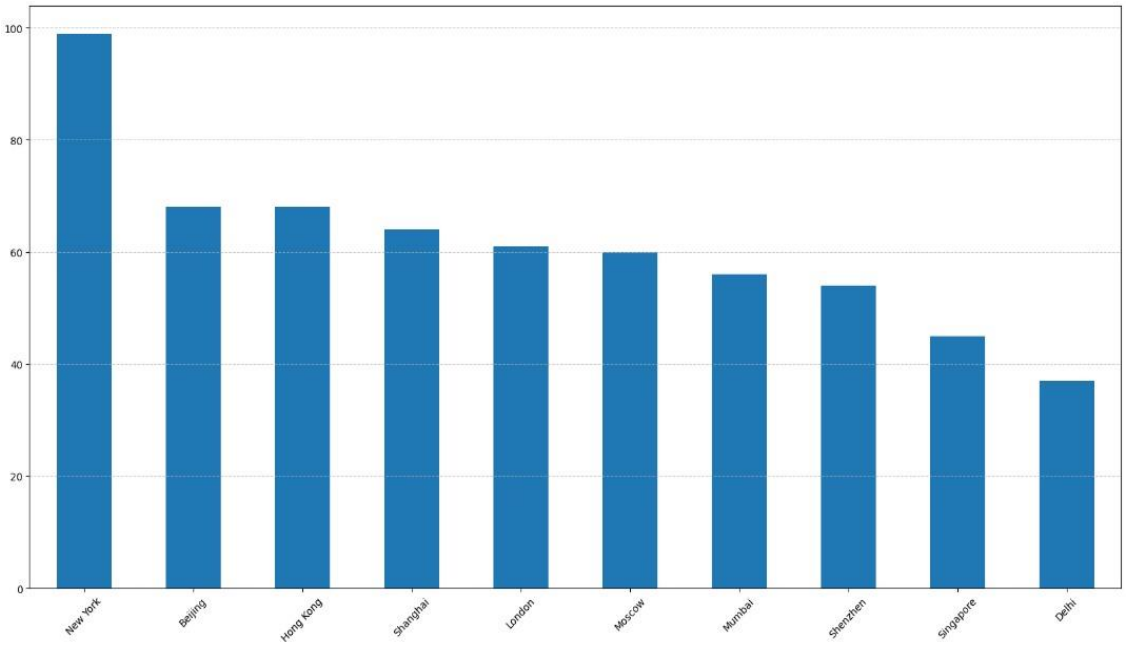
The EDA you provided is a pie chart that shows the percentage of billionaires in each industry in the United States. The top 10 industries account for over 80% of all billionaires, with the finance and investments industry having the largest share (37%). Other notable industries include manufacturing (16%), technology (15%), and fashion and retail (10%).



The pie chart provides valuable insights into the industries where self-made billionaires are most likely to achieve financial success



EDA reveals age peaks among billionaires: 40-60 in tech and finance, 60-80 in fashion/retail, and no distinct peak in gambling/casinos. This highlights age-specific wealth patterns across industries among billionaires.



New York City boasts the highest billionaire population, followed by Beijing and Hong Kong, indicating concentrated wealth hubs. Conversely, Delhi exhibits the lowest count of billionaires among these cities, showcasing a significant disparity in billionaire concentrations.

Conclusion:

In conclusion, the multifaceted analysis of data across geography, industry, wealth origins, gender, age, and geographic origin provides a comprehensive view of interconnected aspects within the dataset. Through meticulous data preparation, cleansing, and transformation, followed by targeted analysis, numerous insights can be uncovered. Visualizations play a pivotal role in elucidating trends, distributions, and correlations, offering a clear and accessible representation of complex data relationships. By synthesizing diverse parameters and employing varied visualization techniques, this analytical approach not only facilitates better understanding but also enables informed decision-making and strategic planning across a spectrum of domains, thereby harnessing the power of data to drive meaningful and actionable insights

Team Collaboration:

Manoj: Data Analyst/Story Teller – Exploration and Analytics, Story Telling from the Insights Gained

Bharath: Data Engineer/Data Analyst – Pre-processing and Preparation, Analytics of Data

Nivethitha: Visualization Developer/Story Teller – Developing Visualizations and developing the story to it

Varshini Vaisnavi: Presenter/ Data Engineer – Data Preparation and Presentation of the findings in effective manner