World Power and USA 2012 election

By: Yashvardhan Singh

Data Analyst

Summary:

The goal is to visualize data using choropleth maps and create geographical plots to analyse it. We are importing world power consumption data and USA 2012 election data to conduct further analysis. This will help study geographical patterns and trends in the datasets effectively.
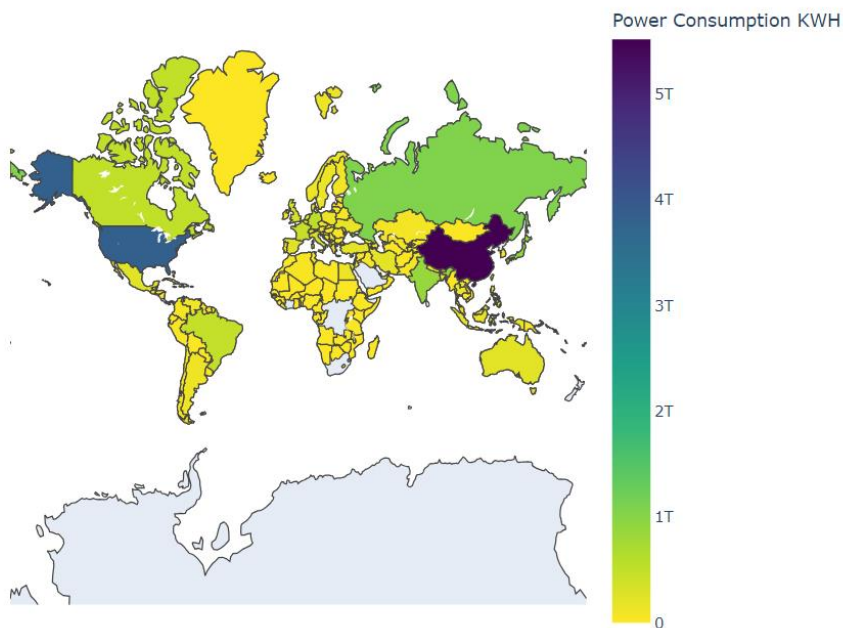
Context:

The goal is to visualize data using choropleth maps and create geographical plots to study global trends. We are importing world power consumption and USA 2012 election data to perform detailed analysis. By creating a choropleth plot of power consumption for different countries using a data and layout dictionary, we aim to extract meaningful insights with just a few lines of code. This approach helps to better understand geographical patterns, providing a clearer perspective on the datasets for further decision-making.

Analysis Finding: World Power Consumption 2014 Data

China and the USA are among the largest power consumers, followed by Russia, Canada, and India. Visuals show that China had the highest consumption, exceeding 5T KWH of power based on 2014 data. This highlights significant global energy usage concentrated in a few key countries.
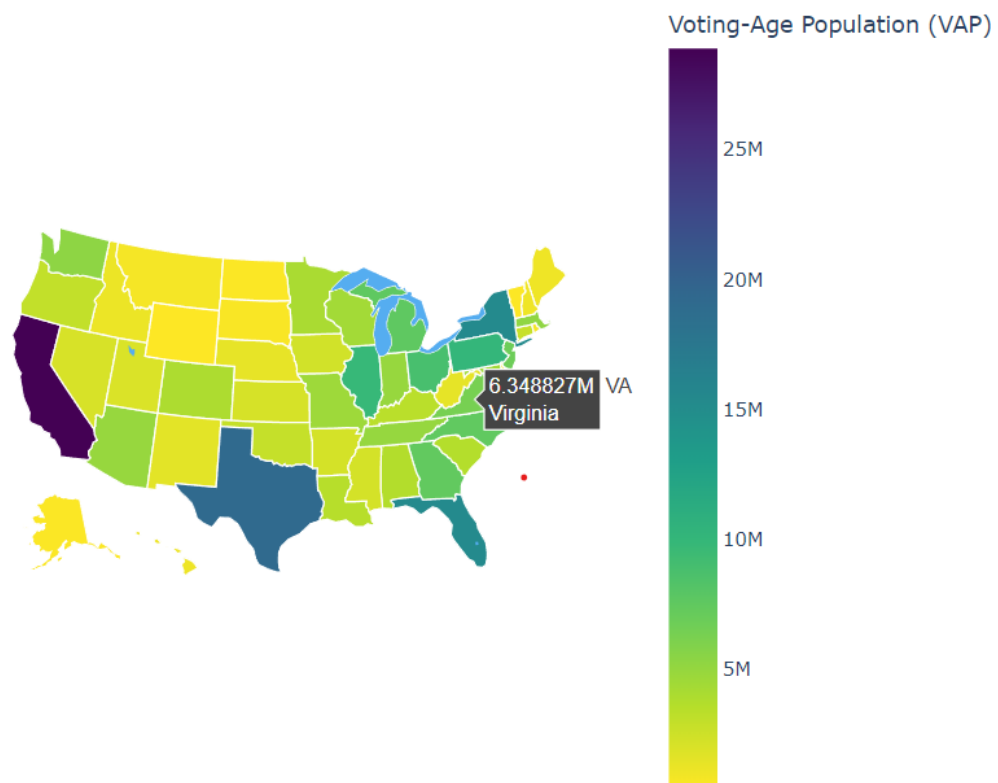
2014 Power Consumption KWH

Analysis Finding: USA 2012 Election Data

A plot of the Voting-Age Population (VAP) per state, based on USA 2012 election data, shows California with the highest VAP, followed by Texas, Florida, New York, and Illinois. This visualization highlights the states with the largest eligible voter bases during that election year.

2012 General Election Voting Data

Findings:

These findings can provide valuable insights for both policymakers and analysts. For power consumption, understanding that China, the USA, and other major countries are top consumers can inform global energy strategies, resource allocation, and sustainability efforts. Governments and organizations can focus on developing more efficient energy policies, renewable energy sources, and collaborations to reduce environmental impact.

In terms of the Voting-Age Population, the data helps political analysts and campaign strategists identify key states with large voter bases. By focusing on states like California, Texas, and Florida, campaigns can allocate resources effectively, target specific demographics, and create policies that resonate with the most significant portion of voters. This analysis can also help in understanding voter turnout trends and adjusting electoral strategies accordingly.