Arjun Achuthan

US Census Demographic Data

Tableau Public Link:

https://public.tableau.com/profile/arjun.achuthan#!/vizhome/Udac/Story1?publish=yes

Dashboard 1:

Demographic overview of US. How Diverse is US?

- In general US is very ethnically diverse with Whites, Blacks, Hispanics and Asians among other racial categories.
- Generally, I also observed that, States with high proportion of Non-Citizen also tend to have higher racial diversity.
- California has the highest proportion of non-citizen, also higher proportion of Hispanics, Asians and other ethnicities compared to other states.

Design:

Have used color shade in map to describe population density.

Dual axis bar chart to show a comparison between citizen vs total population. It makes it easier to get a sense of what proportion of the total population are citizens.

Dashboard 2:

Factors influencing Poverty across US:

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  Generally, Southern and South-Eastern states seem to have higher rates of poverty when compared to northern states.
- Through the graphs we can observe that there is a linear relationship between Poverty and unemployment rate.
- Also, states with lower mean income tends to have higher poverty rates.

Design:

In the maps, I have used a combination of color and size to describe poverty.

States with larger size of bubble, are those with high number of poor people. State shaded in Orange are those with higher proportion of its population who are poor.

I have used scatter plot to show the linear relationship between, Poverty and Unemployment.

I have used dual axis chart (Bar and Line chart) to show how Income and Poverty are related.

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Dashboard 3:

States with good transportation in US

Summary:

- States with good Transit system are considered to have good transportation. When a major proportion of population opt for Transit over other modes of commute. It Indicates that the state has good transportation system.
- New York is a State with the greatest number of people who use the transit. While Washington DC is a State where highest proportion of people use transit.
- Among the top 5 states with high proportion of people preferring Transit. It was observed through the box plot that, only few counties in each of these states had high proportion of opting for transit. Thus affecting the overall average.

Note: I did not consider lesser commute time as a yardstick for good transportation. Lesser commute time could also mean that there might be less population density or less traffic. Does not necessarily mean that the transportation system is good.

Design:

I have mostly used simple bar charts and Tables to convey figures.

To show how the use of Transit varies across counties withing states, I have shown it through Box Plot.

Resources:

N/A

General notes:

I have used calculated fields to calculate Ethnicities, Transportation and other statistics such that the values can be aggregated across county and states.

I have tried my best to use limited colors, to avoid cognitive load.