BUILD DATA DASHBOARDS PROJECT

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Project Description

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In this project, you'll create visualizations to reveal insights from a data set. You will create data visualizations that tell a story or highlight patterns in the data set. Your work should be a reflection of the theory and practice of data visualization, such as visual encodings, design principles, and effective communication.

There are 3 different data sets you can choose from.

Flight Delays and Cancellations

US Census Demographic Data

Youtube Data from the US

Project Implemented using Tableau

2) US Census Demographic Data

This data comes from a Kaggle dataset, it includes the census data for all counties in 2015.

I created three visualizations. I answered questions pertaining to the following areas:

1. Best transport mode in the United States

2. Preferred Employment Sectors in the United States

3. Poverty Analysis in the United States

INSIGHT 1

What are the preferred employment sectors in United States?

- Preferred employment sectors across different states was visualized and we concluded that Professional Sector was most popular sector across states.
- Region wise professional preference was visualized and the rankings enabled us to determine which region preferred a particular employment sectors over other regions.For example the construction employment sector was most popular in Mountain Region and Professional Employment sector was most popular in New England. New England employs highest average percentage of people in Professional Sector when compared to other states.
- We visualized the average percentage of self employed people across various states and regions.For example West North Central region had higher average percentage self employed people when compared to other regions.

Link https://public.tableau.com/shared/YY9642WBM?:display_count=y&:origin=viz_share_link

INSIGHT 2

Poverty analysis in the United States

- We visualized the rank of average per capita income vs average unemployment across the country and found that higher unemployment rank led to lower or better per capita income rank.
- We visualized average poverty percentage across the country and country and concluded that Parts of central,mid east,south and northeastern states have lower poverty at less than 5 percent.
- On visualizing child poverty across the country we concluded that states with high poverty had higher child poverty. Therefore we concluded that child poverty is a major factor in high poverty across the country.
- Majority of people are employed in private sector across states. We observed from visualization that higher average employed percentage led to a lower average poverty percentage.
- We observed that lower average poverty depends on lower level of unemployment and higher employment in professional job sector.

Link - https://public.tableau.com/shared/2522TZ9DN?:display_count=y&:origin=viz_share_link

INSIGHT 3

Best transport mode in the United States

- We visualized mean average commute time to determine states with highest and lowest commute time.
- We observe that counties with higher drive and carpool percentage have less percentage of adoption of transit and walking. Work at home adoption is less in counties with higher commute time when compared with counties with less commute time.
- We observe that more people use transit and walk as modes of transport in state with lower commute time when compared to states with higher commute time. Work at home adoption is more in counties with lower commute time when compared with counties with higher commute time
- We compared average commute time with average work at home and observed that that regions with higher commute time rank have lower work at home rank.
- We visualized the region wise popular transport and observed the findings listed below
- Different regions have preferred mode of transport.Population and geography influences the transport chosen by people.

     Pacific Alaska region has lowest population and different geographical contour than other regions.So walking and car pool is preferred by residents.

- Middle Atlantic has high population Rank ,higher commute time so people prefer using transit mode of transport more when compared to other regions.

Link -https://public.tableau.com/shared/4P8C99NMR?:display_count=y&:origin=viz_share_link

Resources referred to: NA

Links
1.Best Transport in united states
https://public.tableau.com/shared/4P8C99NMR?:display_count=y&:origin=viz_share_link
2.Poverty Analysis of united states
https://public.tableau.com/shared/2522TZ9DN?:display_count=y&:origin=viz_share_link
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