**Title:**

*Interactive Visualization of US Census and Demographic data*

**Team Members:**

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**Description of Data:**

The dataset used for this project is the US Census Demographic data for the year 2015. It is a Geo-spatial dataset containing 37 attributes. The dataset describes total population by gender and ethnicity, average income per household, percentages of poverty, employment and unemployment. Also, the dataset contains percentage of people grouped by the mode of transport they use and percentage working in public sector and private sector. The whole data is available for all the states and is according to county wise. The dataset is collected from Kaggle website/repository and can be accessed at <https://www.kaggle.com/muonneutrino/us-census-demographic-data>.

**Approach:**

* Data is cleaned to eleminate noise and missing values.
* Link States (data points) with location co-ordinates to make it suitable for geospatial visualization.
* Visualization techniques such as Bubble graphs, 3D-Donut, Pie charts, Bar graphs, Line charts Stacked Bar graphs etc. will be used to describe the data in an effective way.
* Provide an interactive environment to users by providing dropdown(filters), referencing when hovering over the coordinates, triggering events by mouse clicks, providing zoom functionality and using scroll bars to move left, right up or down etc.
* Insights from the data will be extracted to visualize specific categories in detail such as top 5 states with highest employment rate, poverty rate, the states with usage of highest public transport etc.
* Also, we shall provide detailed analysis of each state through different visualizations when user clicks on that state in the map.

**Tools:**

D3.js, JavaScript, Bootstrap

**Deliverables:**

* Visualization Demo or URL to access the project.
* Source Code
* Project Report