**DSC-640 Data Presentation & Visualization**

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**Project Milestone-1**

**Urgent need for affordable childcare solutions in US**

**Summary of Analysis**

The analysis of the national database of childcare prices reveals significant variations in childcare costs across different states and counties. The data includes metrics such as unemployment rates, labor force participation rates, median household income, and childcare costs for various age groups. This comprehensive dataset allows us to understand the economic factors influencing childcare affordability and accessibility.

**Findings**

1. **Childcare Costs**: There is a wide range of childcare costs, with some counties experiencing significantly higher prices than others.MCBto5, MC6to11, MC12to17, MCInfant, MCToddler and MCPreschool are the attributes in the dataset related to childcare costs.
2. **Economic Indicators**: Counties with higher median household incomes tend to have higher childcare costs.MHI and MHI\_2018 are the attributes for household income and PR\_F (Female Poverty Rate) and PR\_P (Overall Poverty Rate) are the attributes related to poverty rate.
3. **Labor Force Participation**: Higher female labor force participation rates correlate with increased demand for childcare services.FLFPR\_20to64, FLFPR\_20to64\_Under6, FLFPR\_20to64\_6to17, FLFPR\_20to64\_Under6\_6to17 and MLFPR\_20to64  are the key attributes for this category.
4. **Unemployment Rates**: Areas with lower unemployment rates generally have higher childcare costs, indicating a robust job market and higher demand for childcare.UNR\_16, FUNR\_16, MUNR\_16, UNR\_20to64, FUNR\_20to64, MUNR\_20to64 are the key attributes from the dataset for this category.

**Assumptions**

1. The data accurately reflects the current economic conditions and childcare costs.
2. Higher childcare costs are a barrier to workforce participation, particularly for women.
3. There is a direct correlation between household income and the ability to afford childcare services.

**Items that Still Need Clarification**

1. The impact of state-specific childcare subsidies and policies on the overall cost.
2. The role of informal childcare arrangements in different counties.
3. Detailed demographic breakdowns to understand the specific needs of various communities.

**Direction of Story/Plan of Attack/Message You Want to Get Across**

The story aims to highlight the urgent need for affordable childcare solutions to support working families, particularly in areas with high childcare costs. By investing in childcare infrastructure and subsidies, we can boost workforce participation, especially among women, and promote economic growth. Along with that we will identify which approach or whom we can demand for affordable childcare solutions. Can we force government for public government sponsored day-care facility based on the household income.

**Target Audience**

1. **Government Representatives:** How effectively they can think for Government sponsored public day care facility based on household income.
2. **Investors**: To encourage investment in new daycare businesses in high-demand areas.
3. **Employers**: To promote the benefits of providing employee-funded daycare benefits to attract and retain talent.

**Mediums You Intend to Include**

1. **Infographic**: Visual representation of childcare costs across different states and counties, highlighting key economic indicators.
2. **Presentation**: A detailed slide deck for investors and policy makers, including data analysis, findings, and proposed solutions.
3. **Social Media Campaign**: Engaging posts and videos to raise public awareness about the importance of affordable childcare and to garner support for policy changes.

This structured approach will help convey the importance of addressing childcare affordability and accessibility, ultimately leading to a more inclusive and productive workforce.