

A Historical Look at its Relationship with Cost of Living and Affordability by State

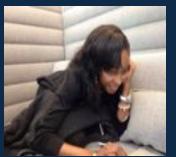




Team Members



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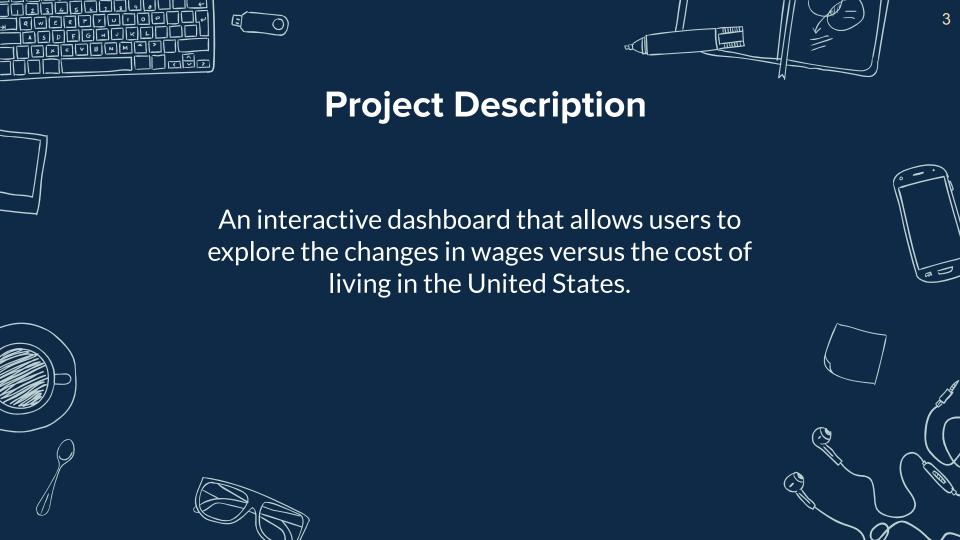
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An Immersive Visualization

The goal of our project was to create an interactive dashboard with a user-friendly interface and intuitive visualizations, providing an effective medium for individuals to consume, interpret, and explore our selected datasets. This dashboard provides custom views and user-driven visualizations, transforming complex data into easily understandable and shareable information.

workflow

Sourcing

Evaluate and collect datasets with historical state-level data relevant to:

- Department of labor
- Minimum wage
- Housing costs
- BEA





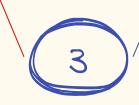
Data

Cleaning

Export data to csv files and load in jupyter notebook for cleaning/ transformation

Dashboard

Perform ETL workflow via SQL server and run dashboard through Flask





Visualizations

Use server to perform data manipulations, create visualizations, and customize multiple interactive views

Caveats and Limitations

- In instances where states haven't adopted their own minimum wage, the effective minimum wage equals the federal minimum wage¹
- Cost of living was only available going back to 1997
- A next step in this analysis might use more granular location data to control for the differences between urban and suburban locales

¹When an employee is subject to both the state and federal minimum wage laws, the employee is entitled to the higher of the two minimum wages.

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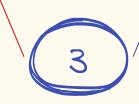
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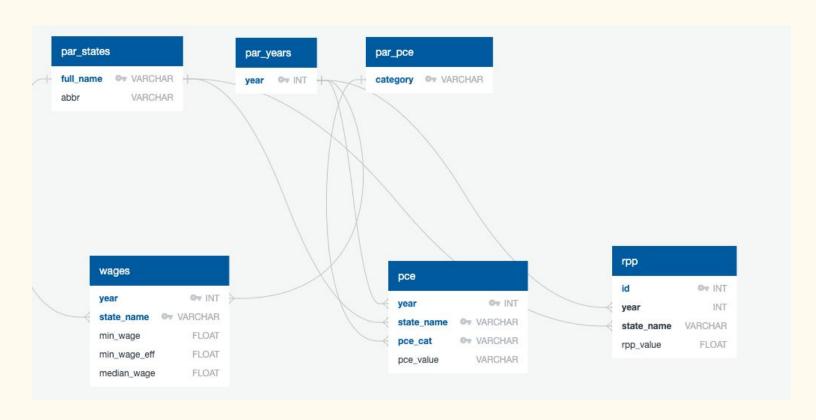




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SQL Database



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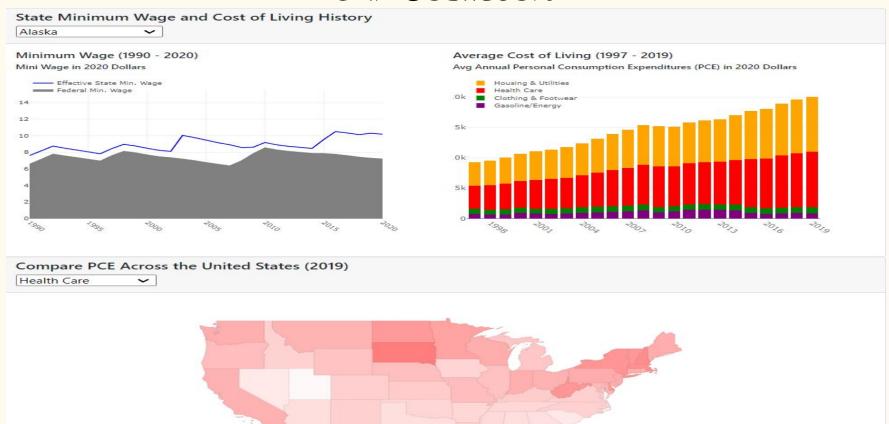




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our Dashboard



use Cases

- The average user should be able to quickly absorb insights related to a social issue that touches such a large part of the population.
- In addition, the interactive design helps in identifying trends and patterns that may have predictive value for policymakers, businesses, and consumers.

Takeaways



Any Questions?



References

Links to Datasets:

- Minimum Wage by State: <u>Changes in Basic Minimum Wages in Non-Farm Employment Under State</u>
 <u>Law: Selected Years 1968 to 2020 | U.S. Department of Labor (dol.gov)</u>
- Kaggle:
 https://www.kaggle.com/lislejoem/us-minimum-wage-by-state-from-1968-to-2017/version/4
- History of Federal Minimum Wage Rates Under the Fair Labor Standards Act, 1938 2009 | U.S.
 Department of Labor (dol.gov)
- BEA: https://apps.bea.gov/iTable/iTable.cfm?reqid=70&step=1&acrdn=8