Executive Summary

Topic: Variation in Data Practitioner Salary by Role and State

Target Questions:

1. What variation in average salary for Data Practitioner jobs exists by role and state

Table of Contents

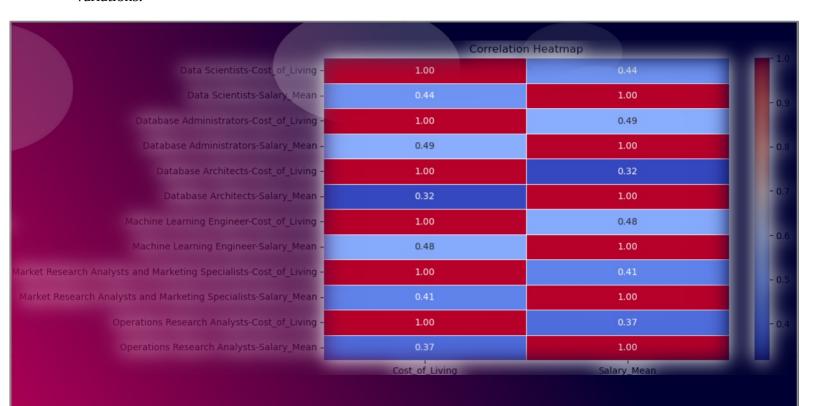
Executive Summary	1
Topic: Variation in Data Practitioner Salary by Role and State	1
Target Questions:	
Context	_

Context

Roles and sub-fields within data science are rapidly expanding with notable differences in pay and responsibility. Using the Bureau of Labor Statistics, Ziprecruiter, and Salary.com for average salaries by state and role combined with Wisevoter's Cost of Living Index, the goal is to understand the variance between salaries across role and state.

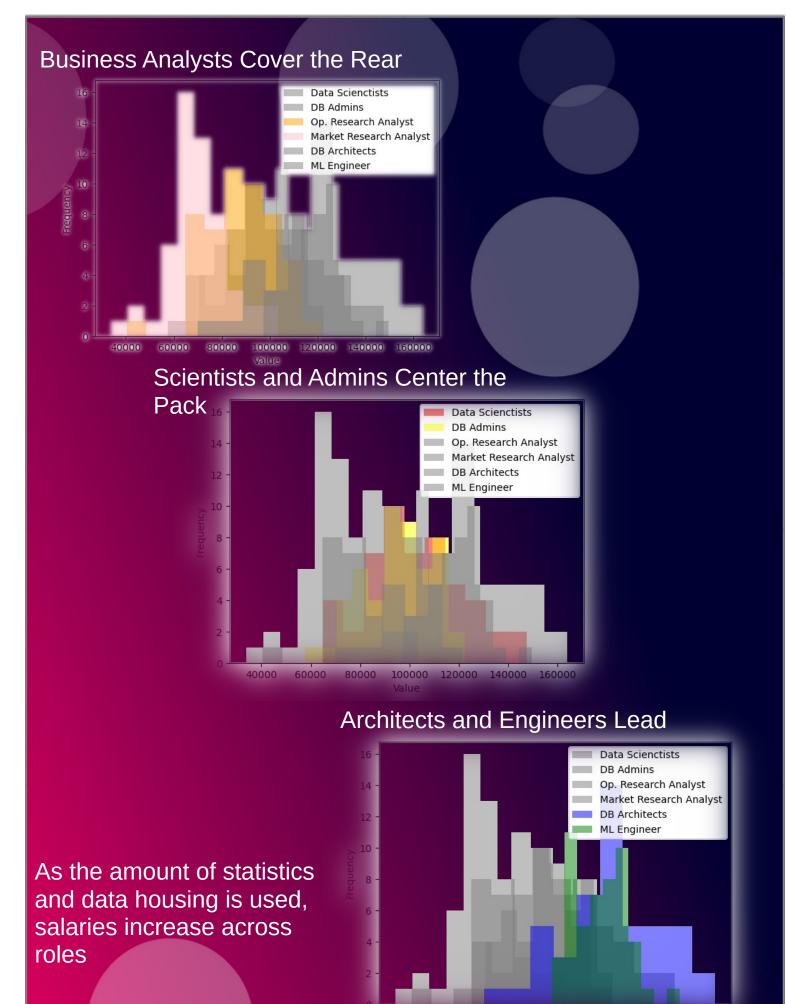
Story

Salaries across the board range from \$40,000 - \$160,000+ with little to only moderate at best correlation between salaries and cost of living by role. Viewing distribution and cost of living explains variations.

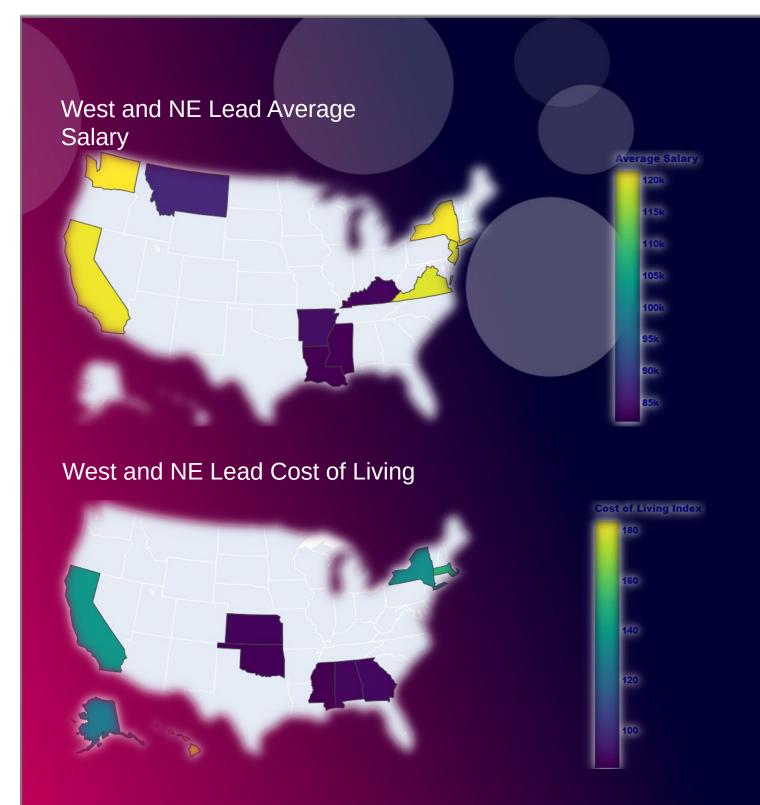


Architects correlate the least to cost of living and DB Administrators the highest

Correlation overall is moderate at most



40000 60000 80000 100000 120000 140000 160000



The West and Northeast tend to have higher average salaries, but that variation from other states may be due to their higher cost of living

Washington, Virginia, and New Jersey have the highest average salary with average cost of living

References/Code Appendix:

 $https://github.com/CUNY-SPS-Data-Science-Program/your-bio-d-ev-craig/blob/main/Major\%20Assignments/Story\%204/Story_4_DCraig.ipynb$

[&]quot;Bureau of Labor Statistics." Bureau of Labor Statistics, Oct. 2023, https://www.bls.gov/.

[&]quot;Cost of Living by State 2023 - Wisevoter." *Wisevoter*, 2023, https://wisevoter.com/state-rankings/cost-of-living-by-state/#cost-of-living-index.

[&]quot;Data Architect Salary | Salary.Com." Salary.Com, Oct. 2023, https://www.salary.com/research/salary/listing/data-architect-salary.

[&]quot;What Is Machine Learning Engineer Salary by State?" *ZipRecruiter*, Oct. 2023, https://www.ziprecruiter.com/Salaries/What-Is-the-Average-Machine-Learning-Engineer-Salary-by-State.