

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

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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

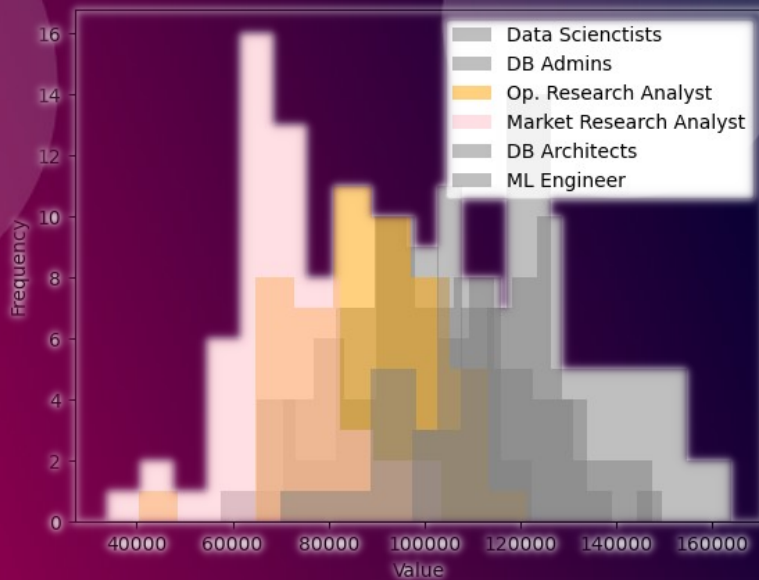
Salaries across the board range from \$40,000 - \$160,000+ with little to only moderate at best correlation between salaries and cost of living by role. Viewing distribution and cost of living explains variations.



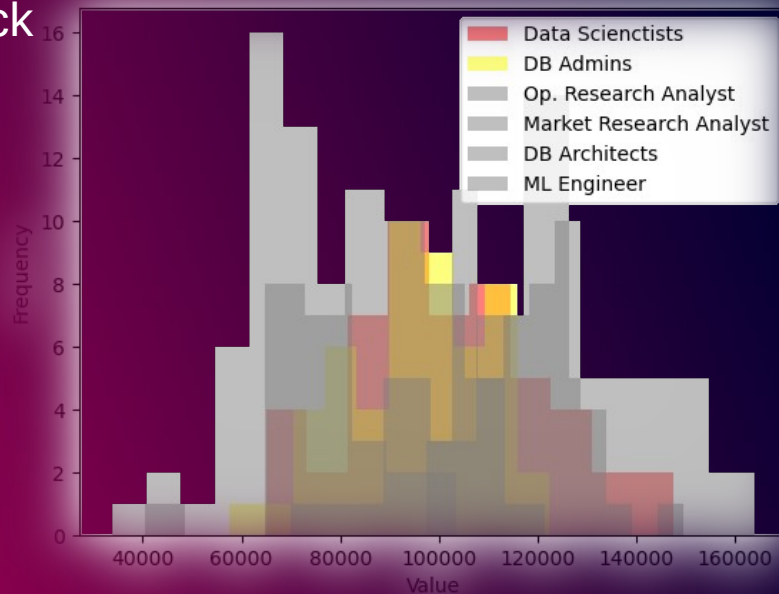
Architects correlate the least to cost of living and DB Administrators the highest

Correlation overall is moderate at most

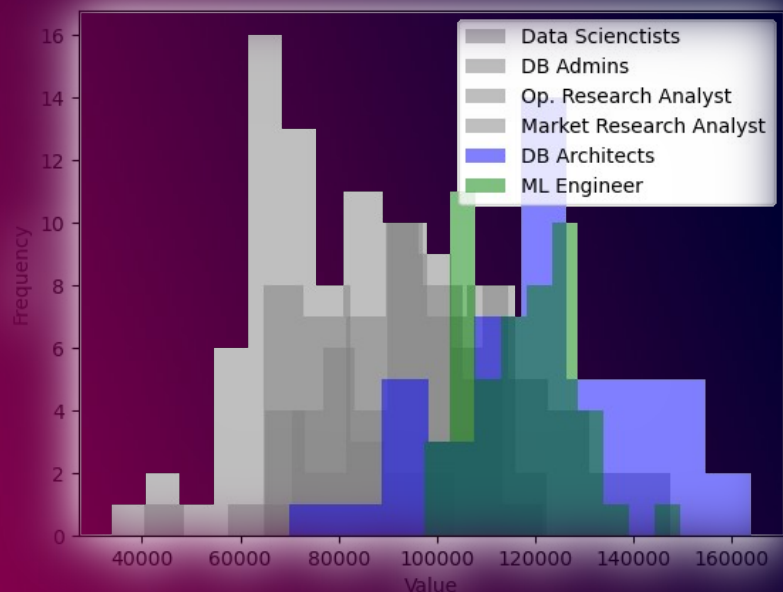
Business Analysts Cover the Rear



Scientists and Admins Center the Pack

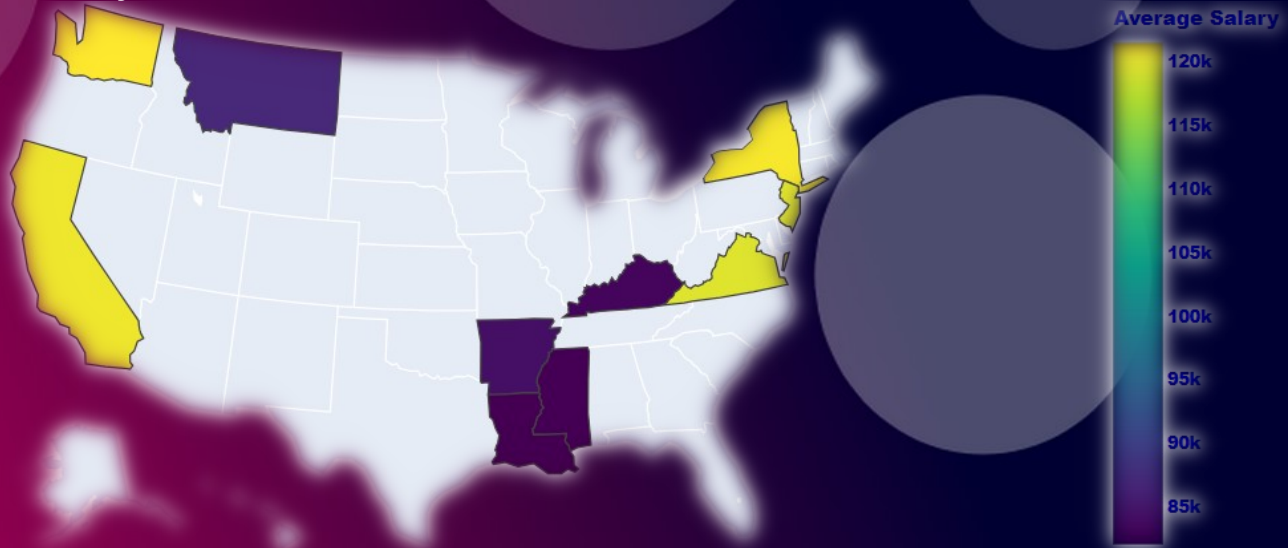


Architects and Engineers Lead

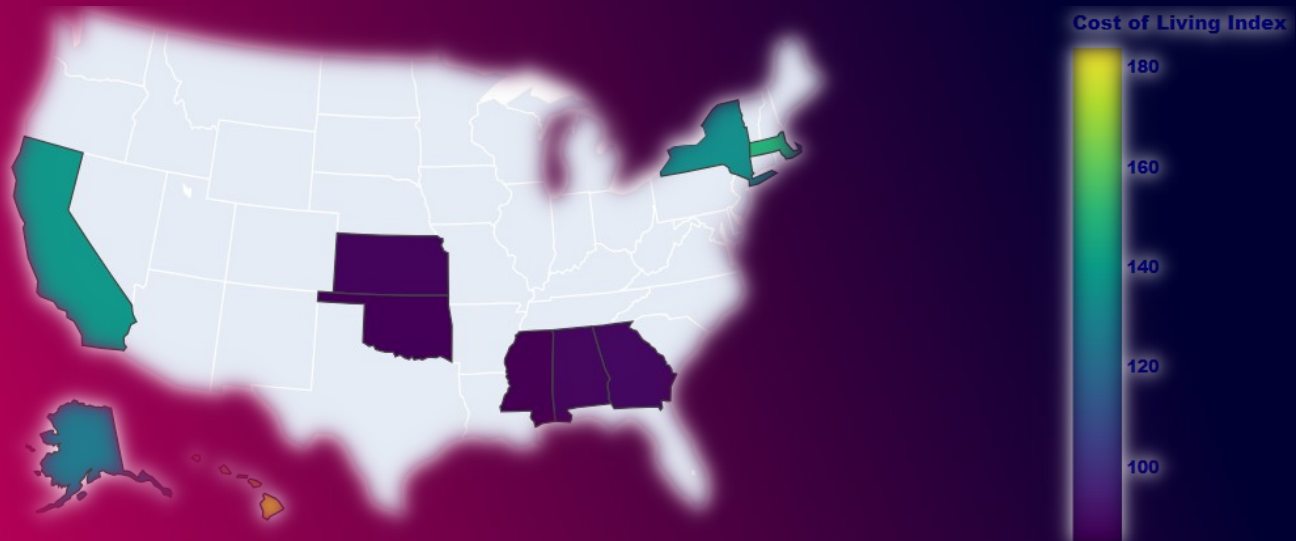


As the amount of statistics and data housing is used, salaries increase across roles

West and NE Lead Average Salary



West and NE Lead Cost of Living



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:

“Bureau of Labor Statistics.” *Bureau of Labor Statistics*, Oct. 2023, <https://www.bls.gov/>.

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“Data Architect Salary | Salary.Com.” *Salary.Com*, Oct. 2023, <https://www.salary.com/research/salary/listing/data-architect-salary>.

“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>.