

Navigating Global Talent: Insights from U.S. Visa Salary Data (2008-2015)

Team Krypton

Dataset Background

The dataset analyzed, sourced from the U.S. Department of Labor's Office of Foreign Labor Certification, encompasses 167,278 records from 2008 to 2015, detailing visa and permanent residency applications for technical positions in the U.S. This dataset is crucial for analyzing trends in salary levels for foreign workers in technical fields, ensuring fair compensation practices, and understanding the dynamics of the U.S. workforce in relation to global talent acquisition.

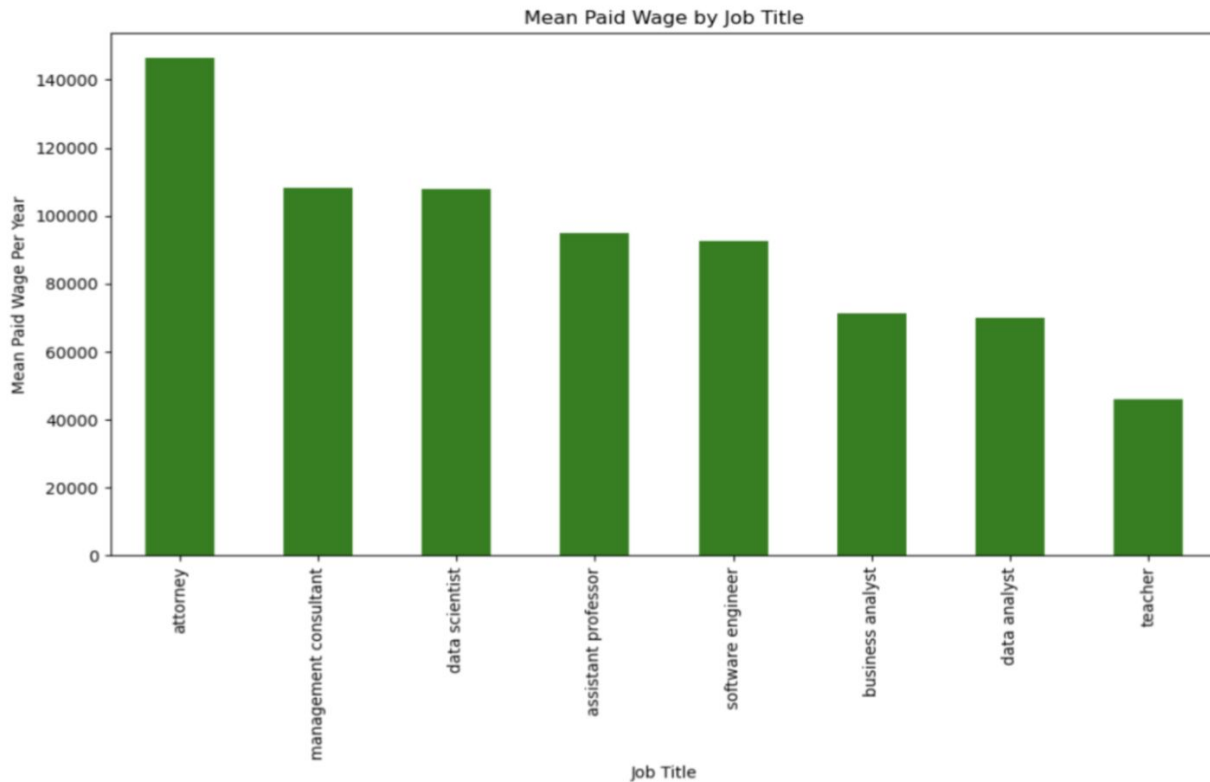


Objectives

- To aid & assist immigrants looking to work in data-driven roles in the US with key insights & takeaways that they can use to help make well-informed decisions regarding their careers.
- To answer common questions immigrants seeking these roles might have using relevant data.

What technical jobs pay the most?

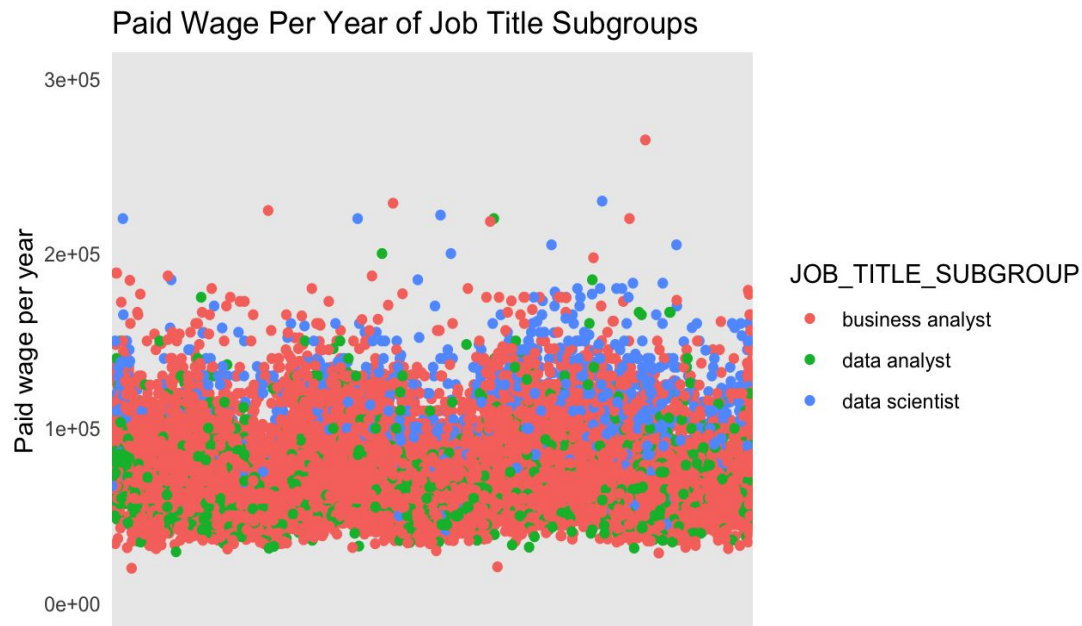
Average Salaries by Job Title:



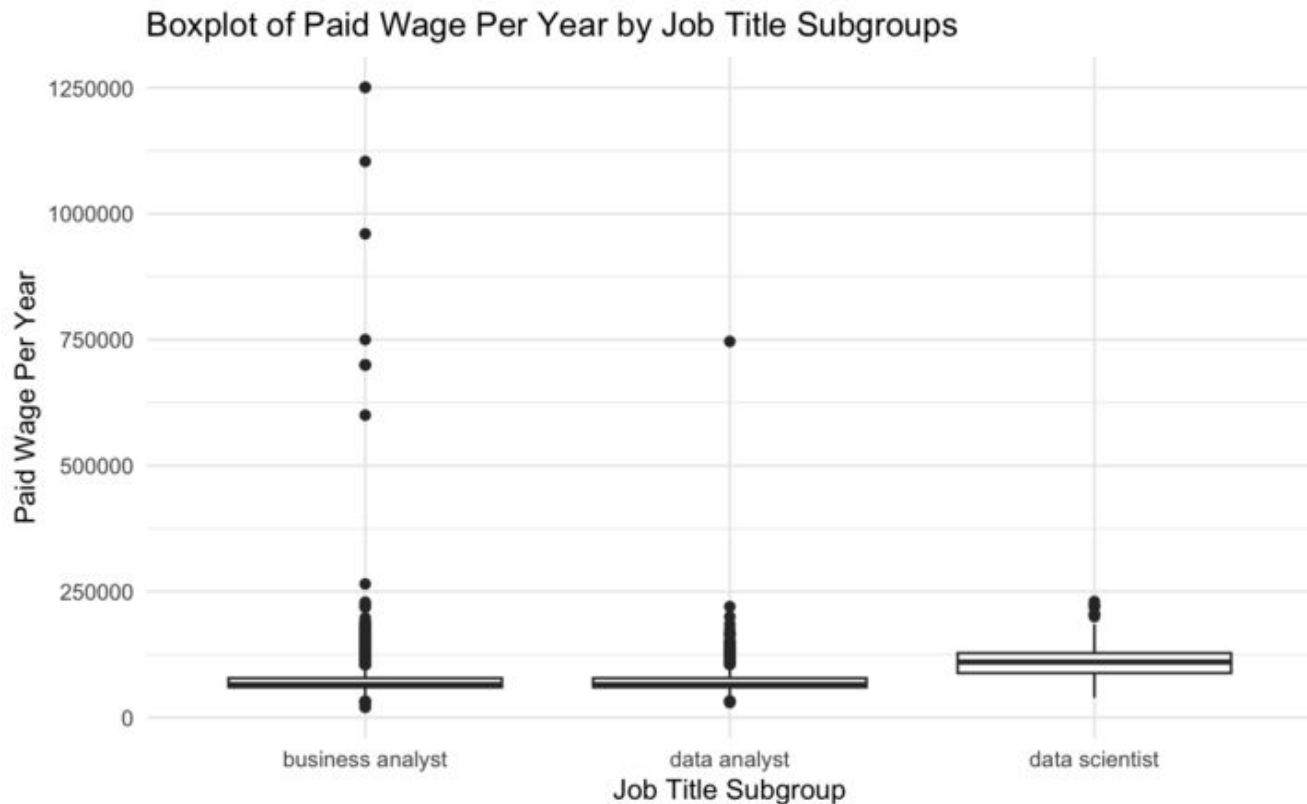
What Jobs in Data Related Jobs Pay the Most?

- All data job titles are relatively high paying.
- Business Analyst & Data Analyst salaries are significantly less on average compared to Data Scientist salaries
- The variance in salaries is greater for Business Analyst & Data Analyst job titles.

| JOB_TITLE_SUBGROUP | AvgSalary |
|--------------------|-----------|
| data scientist | 108021.04 |
| business analyst | 71300.08 |
| data analyst | 70030.08 |



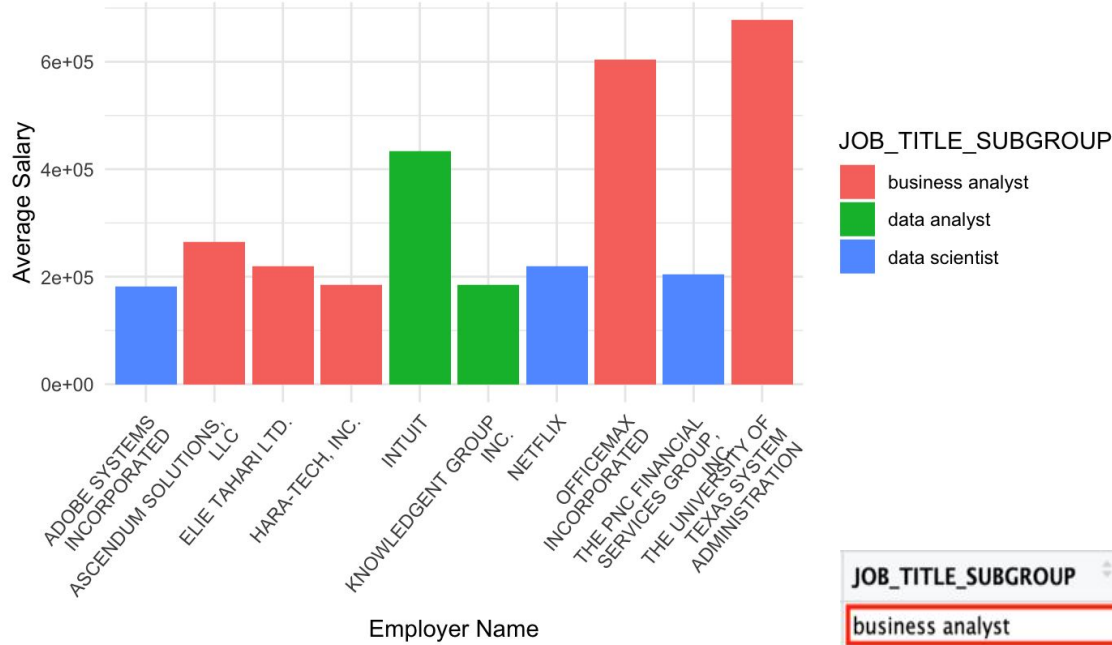
Expanding Upon Variance in Data Science Jobs:



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Top Employers with the Highest Average Salaries for Each Job Subgroup

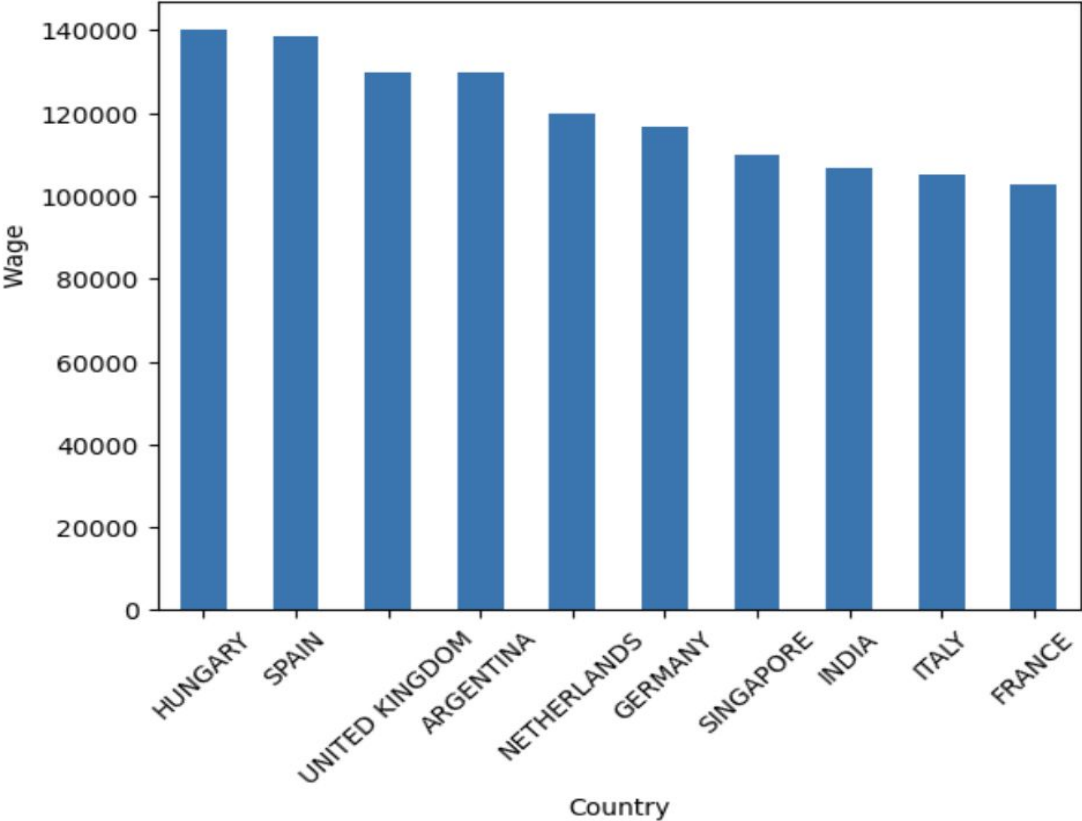


- **Data Scientists:** Big Tech Companies & Financial Firms
- **Data Analysts:** Financial Firms & Consulting Firms
- **Business Analysts:** Consumer Goods firms & Educational Institutions (Especially UT Austin!)

| JOB_TITLE_SUBGROUP | EMPLOYER_NAME | AvgSalary |
|--------------------|---|-----------|
| business analyst | THE UNIVERSITY OF TEXAS SYSTEM ADMINISTRATION | 677508.0 |
| business analyst | OFFICEMAX INCORPORATED | 603711.7 |
| data analyst | INTUIT | 433161.5 |
| business analyst | ASCENDUM SOLUTIONS, LLC | 264992.0 |
| business analyst | ELIE TAHARI LTD. | 220000.0 |
| data scientist | NETFLIX | 220000.0 |

What is the wage difference among country of origin for immigrant workers in data related positions?

Top 10 Non-US Citizen Workers Average Wage in Data Jobs by Citizenship Breakdown



| AVERAGE_WAGE | |
|------------------------|---------------|
| COUNTRY_OF_CITIZENSHIP | |
| HUNGARY | 140000.000000 |
| SPAIN | 138536.000000 |
| UNITED KINGDOM | 130000.000000 |
| ARGENTINA | 129936.900000 |
| NETHERLANDS | 120000.000000 |
| GERMANY | 116666.000000 |
| SINGAPORE | 110000.000000 |
| INDIA | 106582.757303 |
| ITALY | 105000.220000 |
| FRANCE | 102738.143333 |

Top 10 Highest-Paid Data Jobs for Non-US Workers

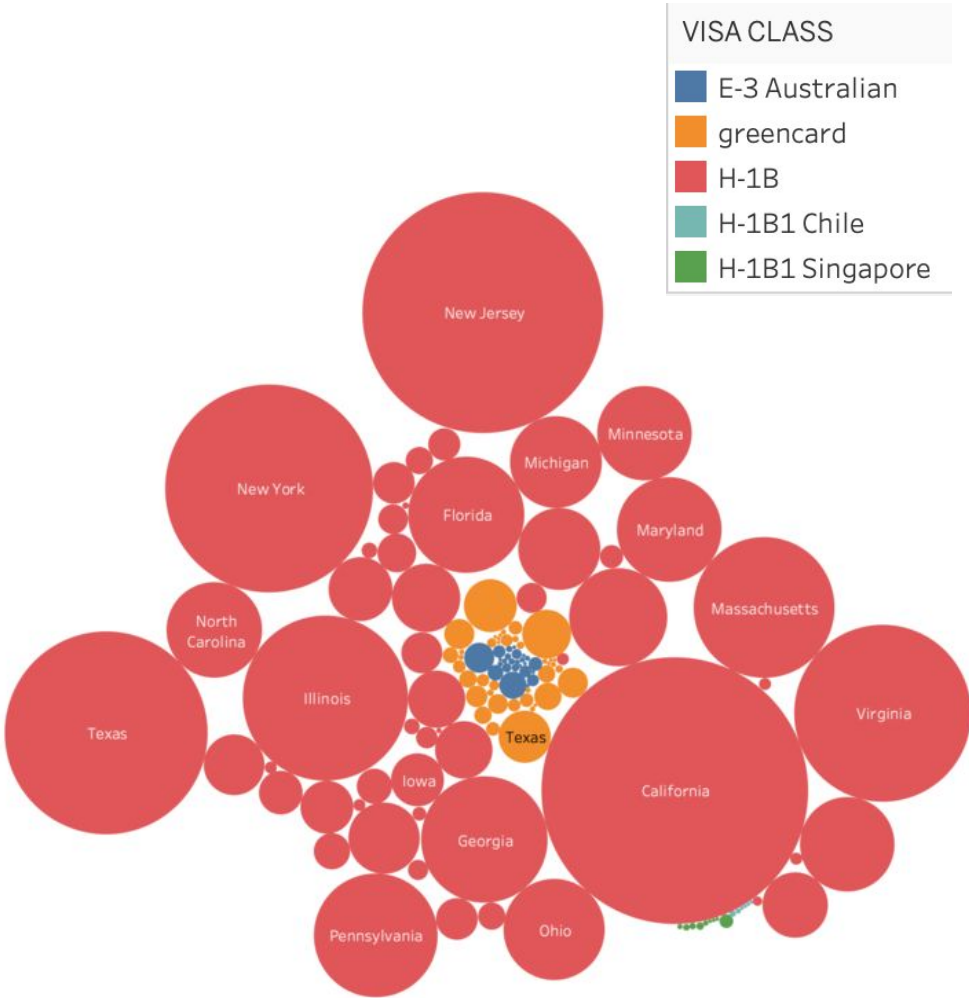
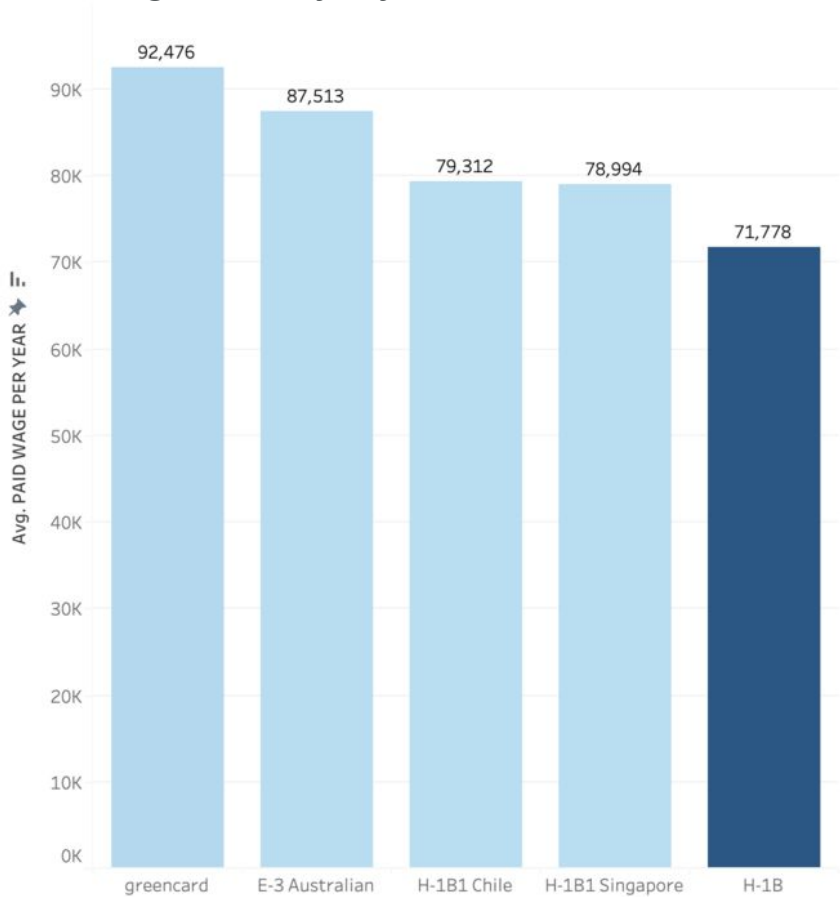
| | | AVERAGE_WAGE |
|--------------------------------|------------------------|--------------|
| JOB_TITLE | COUNTRY_OF_CITIZENSHIP | |
| Technical Data Analyst | INDIA | 746323.00 |
| Senior Data Scientist | CHINA | 175000.00 |
| DATA SCIENTIST | INDIA | 150000.00 |
| Sr. Big Data Analyst | HUNGARY | 140000.00 |
| DATA SCIENTIST | SPAIN | 138536.00 |
| Data Scientist | GERMANY | 137506.00 |
| | FRANCE | 133766.43 |
| | INDIA | 131397.64 |
| Staff Engineer, Data Scientist | INDIA | 130000.00 |
| Data Scientist | TAIWAN | 130000.00 |

Average Wage

| JOB_TITLE_SUBGROUP | AvgSalary |
|--------------------|-----------|
| data scientist | 108021.04 |
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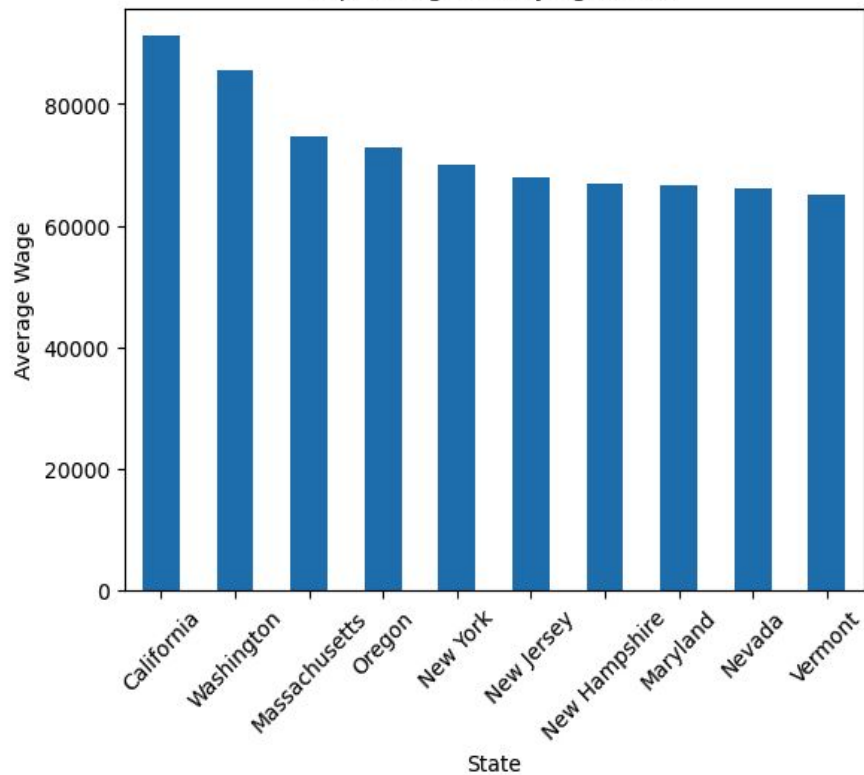
What visa class gets paid the most?

Average Salary by Visa Class

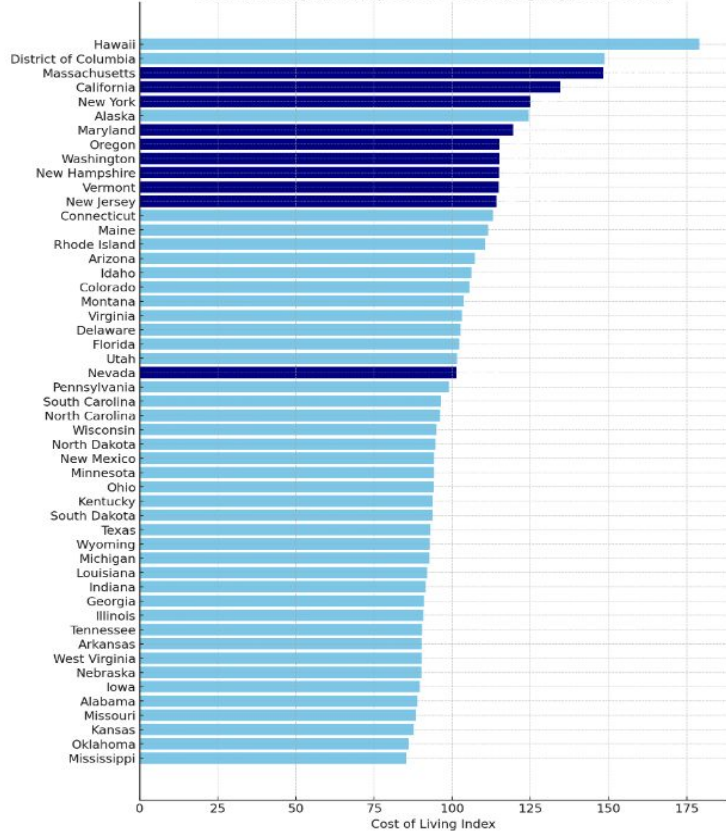


What States Have the Highest Salaries?

Top 10 Highest Paying States



Cost of Living Index by State - 2023 (Highlighted States)



| JOB_TITLE_SUBGROUP | WORK_STATE | AvgSalary |
|--------------------|----------------------|-----------|
| data scientist | California | 117824.16 |
| data scientist | Washington | 116132.61 |
| data scientist | Minnesota | 111457.00 |
| data scientist | New York | 106332.28 |
| data scientist | Oregon | 106140.85 |
| data scientist | District of Columbia | 105312.50 |
| data scientist | Arizona | 105117.73 |
| data scientist | Connecticut | 103540.00 |
| data scientist | Utah | 102578.49 |
| data scientist | Massachusetts | 102068.95 |

| JOB_TITLE_SUBGROUP | StateCount |
|--------------------|------------|
| data scientist | 31 |
| business analyst | 15 |
| data analyst | 7 |

Key Takeaways

Key Takeaways | Salaries by Job Title

- Immigrants that are looking to start off with the highest salary overall should choose to become an Attorney.
- Teachers make the lowest average salaries compared to all other job-titles.
- Immigrants that are looking to start off with the highest salary in the field of data scientist should choose to become a data scientist.
- Immigrants that decide to pursue other data roles should not be disheartened; salaries are still significantly higher than the national average & mid to late career salaries for analyst roles are just as high (if not higher, in some cases) as Data Scientist roles.

Key Takeaway | Data related Sectors

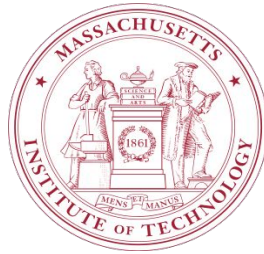
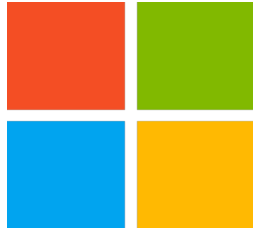
- The sector or industry that pays the most significantly depends on the job-title, even within the field of Data.
- Surprisingly, while Data Scientist roles pay higher on average compared to Business & Data Analysts roles, The highest paying roles outright in the dataset are Business Analyst roles.

Key Takeaways | Salaries by Citizenship

- Non-US citizen workers in data-related professions earn an average of more than \$100,000 per year.
- Technical Data Analyst, Senior Data Scientist & Data Scientist are the top 3 highest-paying data-related professions for non-US Citizens.
- Hungary, Spain, Argentina, The United Kingdom, & The Netherlands are the top 5 countries of origin of these workers.
- Citizens from all countries in the data positions can expect to receive relatively high salaries

Key Takeaways | Salaries by State

- California & Washington State (major tech hubs) & Massachusetts (Harvard, MIT) offer the highest salaries on average for prospective immigrants.
- Nevada provides immense value considering their high salaries relative to their low cost of living.



GitHub Repository for Krypton

HTTPS: <https://github.com/chavezp92/Krypton.git>

SSH: [git@github.com](https://github.com/chavezp92/Krypton.git):chavezp92/Krypton.git

Questions?

Team Krypton hopes that these insights aid immigrants looking to work in the U.S. in technical roles.
