

Data Analyst/Scientist Job Market Analysis in

Vietnam, America, and Australia



**DATA IS THE NEW SCIENCE
BIG DATA HOLD THE ANSWERS.**



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PART I

INTRODUCTION



ABOUT THE REPORT

This report is carried out as a personal project for a course in Data Analytics. It aims to provide a comparative analysis of the Data Analyst/Scientist job market across three distinct regions: Vietnam, America (specifically the United States), and Australia. The report focuses on key market indicators such as job availability, required skills, salary expectations (where available), and common job titles. Understanding these regional differences is crucial for aspiring data professionals seeking opportunities in these markets. This analysis can also be valuable for educational institutions tailoring their curricula and for companies seeking to understand talent availability and market trends in these locations. The timeframe of the data collection focuses primarily on job postings from November and December, providing a snapshot of the market during this period.

RESEARCH METHODOLOGY

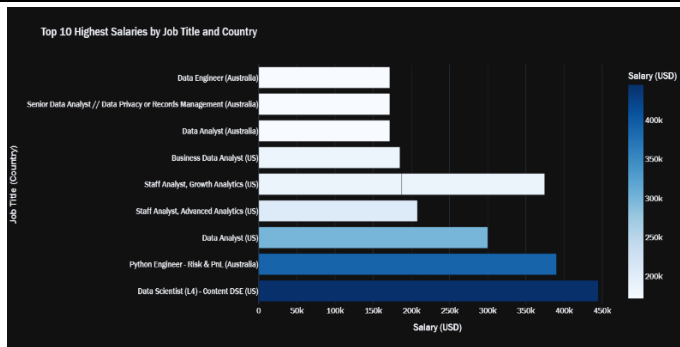
The data in this report was collected using web scraping techniques from LinkedIn, a leading professional networking platform and a significant source of job postings. The majority of the collected data represents job postings published on LinkedIn during November and December 2024. This timeframe was chosen to provide a relatively recent view of the job market. The web scraping process targeted relevant keywords such as "Data Analyst," "Data Scientist," "Data Engineer," "Business Intelligence Analyst," and related terms. The data extracted included job titles, company names, locations, job descriptions (from which required skills were inferred), and where available, salary information. A total of 1061 rows of data were collected and subsequently cleaned and processed for analysis. It's important to acknowledge that data scraped from online sources may have inherent limitations, such as potential biases in the data available on the platform and the completeness of information provided in job postings. Therefore, the findings should be interpreted with this context in mind. Further research using other data sources could provide additional validation and insights.

PART II

FINDINGS

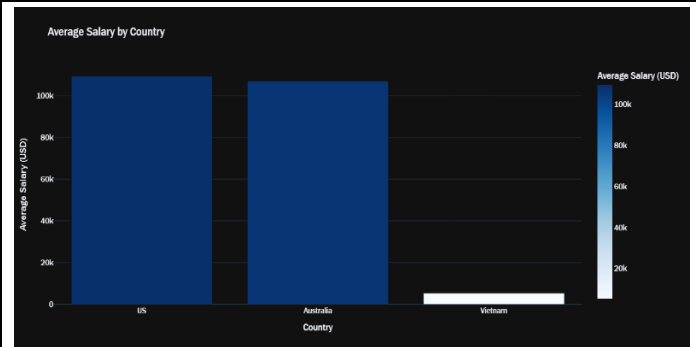
On Salary:

Top 10 Highest Data Salaries



Data Scientists (L4) in the US hold the highest-paid position among the three countries, with a reported annual salary of \$445,000. This significantly surpasses the salaries of Python Engineers in Australia (\$390,000) and Data Analysts in the US (\$300,000). **Reports from Glassdoor and Levels.fyi listing US-based Data Scientists as among the highest-paid roles in tech.** For instance, Levels.fyi lists the total compensation for Data Scientists at top tech firms (like Google, Meta) to range from \$350,000 to \$500,000, aligning with the presented data.

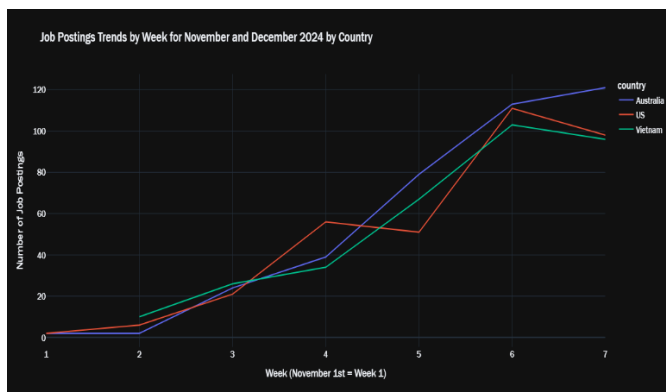
Average salary



Compared to the average cost of living data from Numbeo, workers in the US earn 94 times the monthly cost of living, indicating exceptionally strong purchasing power. In Australia, workers earn 8.35 times the monthly cost of living, maintaining a high standard of living but with less purchasing power than in the US. Meanwhile, workers in Vietnam earn only 0.46 times the monthly cost of living, highlighting significant financial constraints and limited purchasing power. **However, as the dataset contains numerous null values for salary, the calculated ratios may not fully reflect the actual financial situation in each country**

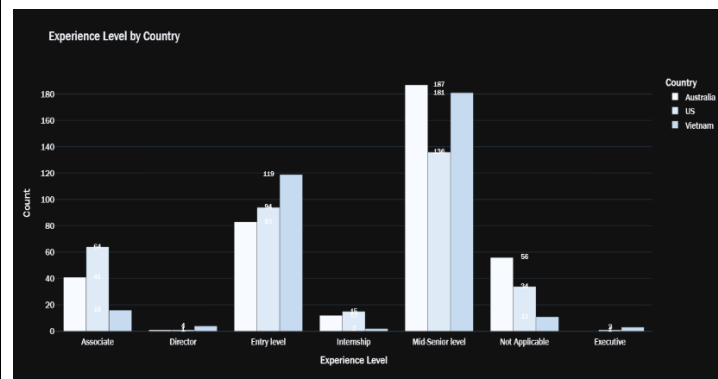
On Job Numbers:

Job post from Nov to Dec



From November (week 44) to December 2024 (week 50), job postings in Australia, the US, and Vietnam showed significant growth. Australia's jobs surged from 2 to 121, driven by sharp increases from weeks 46 to 49. The US saw steady growth from 2 to a peak of 111 in week 49, before slightly dropping to 98. Vietnam experienced early momentum, rising from 10 in week 45 to 103 in week 49, before a small decline. **Week 49 marked the peak for all three countries, reflecting global end-of-year hiring surges linked to holiday recruitment and fiscal year-end planning.**

Job post by exp and country

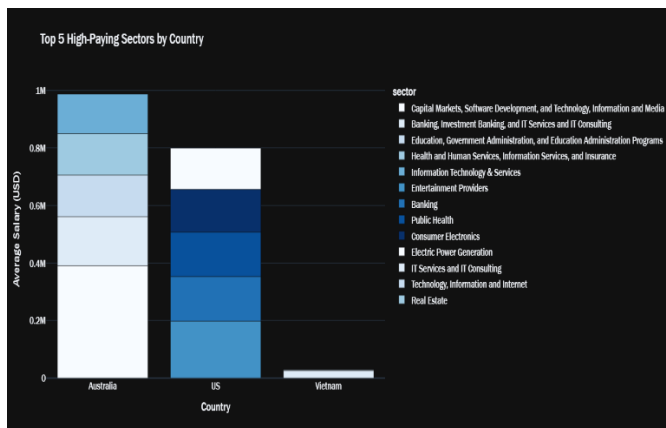


Vietnam and the US have a strong concentration of Entry level roles, while Australia and Vietnam lead with Mid-Senior level jobs.

Overall, while all three countries offer a variety of job levels, **Internship opportunities are notably lacking in each**, indicating a gap in entry-level, short-term professional training opportunities across the board.

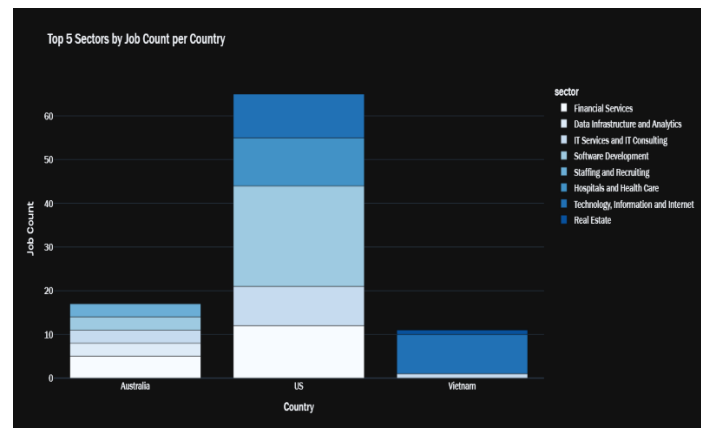
On Industries (Sector):

Average Salary base on Sector



Australia, the US, and Vietnam share common sectors like Technology, Banking, and Public Health, but differ significantly in salary levels and industry focus. Australia offers the highest salaries, especially in Capital Markets and Software Development (\$390,000), followed by the US with strong salaries in Entertainment and Banking (\$197,977). In contrast, Vietnam has much lower salaries, with IT Services at \$25,830 and Technology at just \$3,734. While all three countries emphasize technology and banking, Australia and the US offer considerably higher compensation, particularly in advanced sectors.

Job counts by Sector

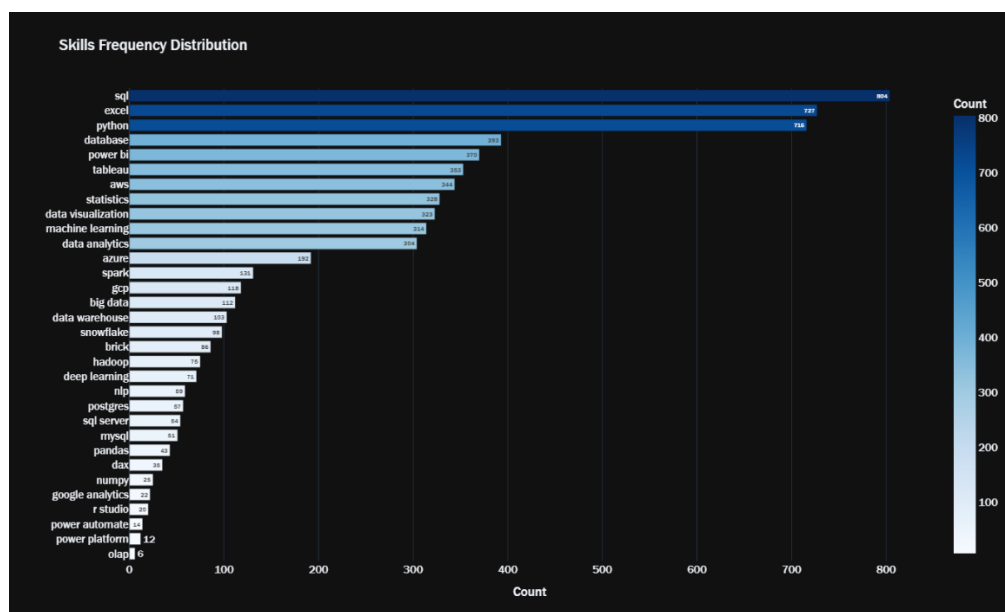


Technology-related sectors such as **IT Services, Software Development, and Technology, Information, and Internet** are common across all three countries.

Financial Services also appear in both Australia and the US, although with different job counts

On Requirements:

Skill Required



An analysis of 1,061 job postings reveals that over 700 roles require Python and Excel, while more than 800 demand SQL proficiency. Reports from Burning Glass Technologies and Indeed confirm this trend, with Python, Excel, and SQL consistently ranked among the most in-demand skills in data-related roles. Additionally, some job postings now require proficiency in Microsoft Power Automate or Power Platform, reflecting the growing demand for automation and low-code development skills. For instance, a search on Indeed.com lists nearly 2,000 job openings seeking candidates with Microsoft Power Automate expertise.

PART III

RECOMMENDATION

For candidates seeking roles in Vietnam, Australia, or the United States, it is essential to build proficiency in Python, Excel, and SQL, as these remain the most sought-after skills in data-related roles, as confirmed by reports from Burning Glass Technologies and Indeed. Candidates should also develop expertise in automation tools like Microsoft Power Automate and Power Platform, with Indeed listing nearly 2,000 job postings requiring these skills.

- In Vietnam, where entry-level positions are abundant, candidates should pursue online certifications in Python, Excel, SQL, and Power Automate through platforms like Coursera or Microsoft Learn. Actively seeking internships through university partnerships or local job fairs can provide critical hands-on experience. Targeting roles in IT Services, Technology, and Software Development — key sectors in Vietnam — can also increase employment opportunities.
- In Australia, candidates should prioritize career progression by focusing on mid-senior level roles, which dominate the market. Obtaining industry-recognized certifications in Python, SQL, and Power Platform can make candidates eligible for higher-paying roles in Capital Markets and Software Development, which offer the most competitive salaries.
- In the United States, where entry-level roles are more common, candidates should seek internships at major firms through platforms like Handshake or Glassdoor. Aiming for Data Scientist roles at leading tech companies like Google and Meta can lead to total compensation ranging from \$350,000 to \$500,000, as noted by Levels.fyi.

References:

[Google Data Scientist Salary | \\$177K-\\$895K+ | Levels.fyi](#)
[Cost of Living](#)

