Data Professional Analysis Miguel Li

Introduction

The data of this dashboard is based from a public survey which was conducted among professionals who are in the field of data science. The data presented explores various metrics such as their job position, average salaries, work locations, work/life balance, and job satisfaction. The objective of this dashboard is to identify key trends and challenges within the data industry.

Respondent Demographics

The survey received responses from professionals across multiple countries. The distribution of respondents is as follows:

Country	Number of Respondents
United States	261
India	73
United Kingdom	40
Canada	32
Other Countries	224

Based on the table above, the majority of the respondents come from the United States, followed by India, the United Kingdom, and Canada. The remaining respondents are spread across various other countries.

Salary Trends by Job Title

The survey data indicates significant variations in salary based on job roles. The highest average salaries were ranked in the following positions:

Job Title	Average Salary
Data Scientist	\$93.78
Data Engineer	\$65.09
Data Architect	\$63.67
Other Roles	\$60.49
Data Analyst	\$55.30

Database Developer	\$33.20
Student/Looking/None	\$26.60

Based on the table above, technical and architect-level positions tend to command higher salaries compared to other roles within the data science field.

Job Market Difficulty

As mentioned previously, the survey has also gained data on the respondent's experiences in finding a job in the data science industry. The responses show:

Difficulty	Number of Responses
Very Easy	4.29%
Easy	21.27%
Neither Easy nor Difficult	42.7%
Difficult	24.76%
Very Difficult	6.98%

Based on the table above, a significant portion of respondents perceive job hunting in data science as neutral, nearly a quarter of them face difficulties securing employment.

Programming language preferences

Based on the data provided in the dashboard, a great majority of respondents have selected Python as the most favored programming language with a total of more than 400 votes, particularly among data analysts (255 voters), students (56 voters), and others (54 voters). The second-most popular languages were R and other programming languages, both of which have around a total of 100 votes each.

Work/Life Balance

A critical aspect of job satisfaction is work/life balance. The target work/life balance score for the survey was 7.5, yet the overall average among respondents was only 5.74, indicating a significant gap. The data in the dashboard suggest that work/life balance varies by location, with professionals in North America (rating of 6.38) reporting higher satisfaction levels than those in other regions.

Salary Satisfaction

Salary satisfaction was rated on a scale of 0 to 10, with 10 being the highest satisfaction. The overall average salary satisfaction was 4.27, which is notably low. The results in the dashboard

highlight widespread dissatisfaction with salaries, especially among professionals outside the United States which have rated their satisfaction less than 5.

Conclusion

Based on the date provided, The United States has the largest number of professionals and the highest salary satisfaction. Another insight gathered is that data scientists earn the highest salary with \$93.78, followed by data engineers and data architects. When it comes to programming languages, Python is the most popular programming language, especially among data analysts. The next insight that can be found in the data is that job market difficulty varies, with nearly a quarter of respondents finding it difficult to enter the field. Last but not least, Work/life balance and salary satisfaction are significantly below ideal levels, indicating potential areas of concern within the industry. Using the insights gathered from the dashboard, professionals and organizations will have a better understanding of the industry trends and address key challenges in the data science field.