

## Group 9 - LA09

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source

data:

<https://www.kaggle.com/datasets/harishkumardatalab/data-science-salary-2021-to-2023>

### 1. Average Data Science in Several Countries

To create this map, we used variables such as company location and salary in USD. By using this data, we can understand the distribution of average salaries for data science jobs across different countries. In Canada, the average salary for a job in data science is around 139,000 USD, in Brazil 58,000 USD, in China 100,000 USD, and many more. However, it is important to remember that each country has different demands for various job sectors. In Australia, you can earn about 115,000 USD in over 8 different job fields. Similarly, in India, there are more than 8 different job fields, but the average salary is about 41,000 USD. In China, only 1 job in a data science that is research scientist who has a salary of around 100,000 USD so the average salary in China is 100,000 USD

This map uses indicators from dark blue to light blue, where countries in dark blue have an average salary in data science up to 100,000 USD, while countries in light blue have an average salary in data science from more than 100,000 USD up to 200,000 USD.

### 2. Data Science Salaries Trend Each Year

According to the data we analyzed, the average salary earned by workers varies significantly each year. We conducted an analysis of the salary data from 2020 to 2024, and our findings indicate notable fluctuations in the average annual earnings. At the beginning of 2020, the average salary was stable at 102,000 USD. However, from 2020 to 2021, the average salary dropped to 100,000 USD. But from 2021 to 2022, the average salary rose significantly to 132,000 USD. From 2022 to 2024, the average salary kept increasing, reaching 153,000 USD in 2024.

The higher average salary in 2024 underscores the positive trend in worker compensation over the analyzed period. Our analysis demonstrates the dynamic nature of worker salaries over these five years, highlighting both the challenges and recoveries within the economy. The fluctuations in average salary underscore the importance of understanding economic conditions and their impacts on worker earnings.

### 3. Work Models

Next, we will move to the pie chart in the top right corner, which shows the frequency of each work model type in the data science field. The majority of data science workers, totaling 3,813 individuals, work on-site, making up 57.8% of the entire chart. Remote work follows, with 2,561 individuals accounting for 38.8% of the workforce. Lastly, hybrid work is the least common arrangement, with only 3.4% of workers. These trends highlight the current preferences and practices in the data science field, suggesting that on-site work remains dominant, while remote work also holds a significant portion. Hybrid work, although less common, represents a small but important segment of the workforce.

#### 4. Average Salaries of Various Data Science Jobs by Experience Level

To create this bar graph, we used the experience level and the salary in USD variables. By using this data, we can understand the average salaries of various data science jobs by looking only at their experience level. Data science workers who are in their entry-level experience with the average salary of 84.44k, data science workers in their mid-level experience with the average salary that reach nearly 119.02k, data science workers in their senior-level experience with the average salary of 162.071k, and data science workers in their executive-level with the average salary of 189.68k.

From the bar plot that we made, we can see that there is an ascending pattern from the bar plot. This is caused by the correlation between the worker's experience level with their average salaries. The higher their experience level, then the higher their salaries.

From this infographic that we have explained, we can conclude that this infographic highlights the average salaries for data science jobs across various countries, their different types of work models, their salary growth trends over the years, and the impact of their experience level to their salaries. This infographic also emphasizes the importance of their location, their work model type, and their experience level when they are considering or planning to work in the data science field.