DATA SCIENCE SALARIES ANALYSIS

This analysis is based on data science salaries around the world. This analysis is carried out firstly with Excel spreadsheet. I used Excel spreadsheet to clean the data before use and the final visualization is done with the use of Tableau.

The analysis will state the differences based on the company size, experience level, top 10 most profitable data science roles, as well as most preferred data science jobs to the highest paid data science roles based on their location.

This is how the data set looks like and it was gotten from Kaggle. The explanations of the terms are below.
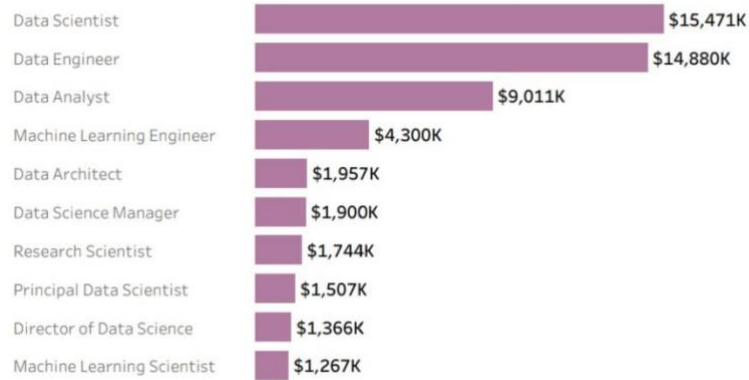
	A	work_year	experience_level	employment_type	job_title	salary	salary_currency	salary_in_usd	employee_residence	remote_ratio	company_location	company_size
2	0	2020	MI	FT	Data Scientist	70000	EUR	79833	DE	0	DE	L
3	1	2020	SE	FT	Machine Learning Scientist	260000	USD	260000	JP	0	JP	S
4	2	2020	SE	FT	Big Data Engineer	85000	GBP	109024	GB	50	GB	M
5	3	2020	MI	FT	Product Data Analyst	20000	USD	20000	HN	0	HN	S

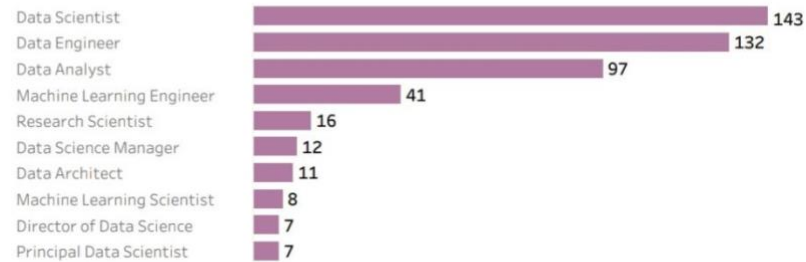| Column	Description
work_year	The year the salary was paid.
experience_level	The experience level in the job during the year with the following possible values: EN Entry-level / Junior MI Mid-level / Intermediate SE Senior-level / Expert EX Executive-level / Director
employment_type	The type of employement for the role: PT Part-time FT Full-time CT Contract FL Freelance
job_title	The role worked in during the year.
salary	The total gross salary amount paid.
salary_currency	The currency of the salary paid as an ISO 4217 currency code.
salary_in_usd	The salary in USD (FX rate divided by avg. USD rate for the respective year via fxdata.foorilla.com).
employee_residence	Employee's primary country of residence in during the work year as an ISO 3166 country code.
remote_ratio	The overall amount of work done remotely, possible values are as follows: 0 No remote work (less than 20%) 50 Partially remote 100 Fully remote (more than 80%)
company_location	The country of the employer's main office or contracting branch as an ISO 3166 country code.
company_size	The average number of people that worked for the company during the year: S less than 50 employees (small) M 50 to 250 employees (medium) L more than 250 employees (large)

Credit to Kaggle.
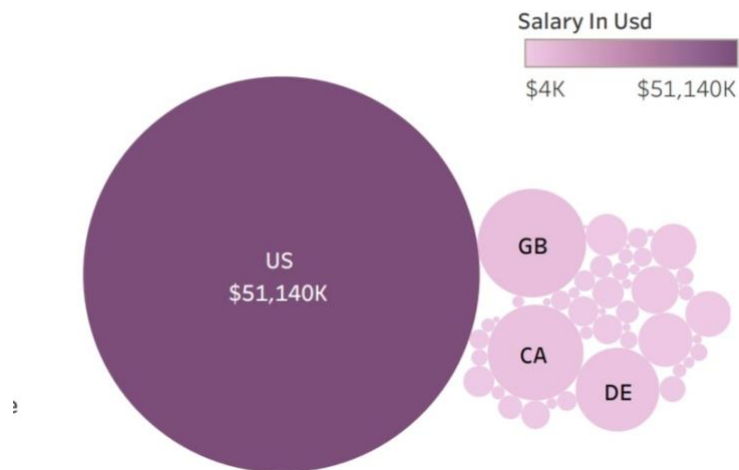
ANALYSIS USING TABLEAU AND OBSERVATIONS/CONCLUSION
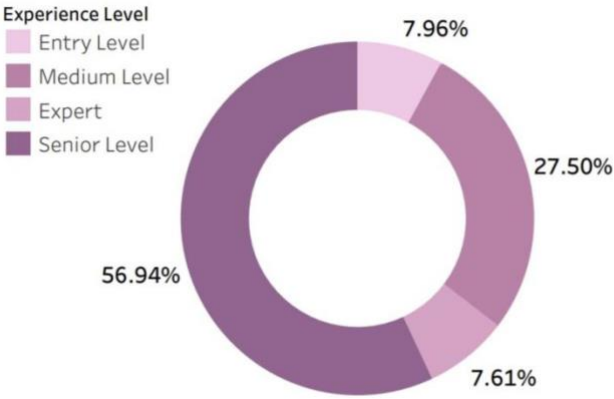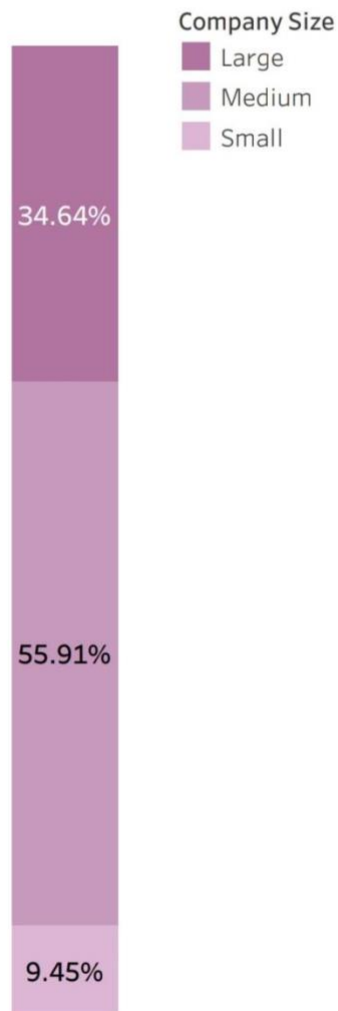
Top 10 Earners Base on Total Sum of Salary

Job	Salary
Data Scientist	$15,471K
Data Engineer	$14,880K
Data Analyst	$9,011K
Machine Learning Engineer	$4,300K
Data Architect	$1,957K
Data Science Manager	$1,900K
Research Scientist	$1,744K
Principal Data Scientist	$1,507K
Director of Data Science	$1,366K
Machine Learning Scientist	$1,267K

Top 10 Data Sceince Jobs

Job	Count
Data Scientist	143
Data Engineer	132
Data Analyst	97
Machine Learning Engineer	41
Research Scientist	16
Data Science Manager	12
Data Architect	11
Machine Learning Scientist	8
Director of Data Science	7
Principal Data Scientist	7

Highest Earners Base On Company Location

Salary In Usd
$4K — $51,140K

US $51,140K
GB
CA
DE

Top Salary Earners Base on Experience

Experience Level
- Entry Level
- Medium Level
- Expert
- Senior Level

7.96%

27.50%

56.94%

7.61%

Salary Level Base On Company Size

Company Size
- Large
- Medium
- Small

34.64%

55.91%

9.45%

CONCLUSION

According to my analysis, I discovered that data scientists amongst other data analysts, with 143 is the most sought after, followed by data engineers and data analyst with 132 and 97 counts respectively; leaving directors of data science and principal data scientists at the bottom of the chart, with 7 counts.

Also, the first top three on the counts are also the highest earners on the chart which is a very good reason they are the most sought after. Their salary range is wide and the last two on the chart are directors of data science and machine learning scientists with a very good salary.

Furthermore, observing the highest earners chart, it's glaring that US has the highest earners based on company location, followed by Great Britain and Canada and most of these earners are from the mid-level or intermediate. This group takes 56.9% of the total count. Followed by the senior level with

27.50, expert and entry level and junior level take 7% respectively. Finally, I discovered that most of the top earners belong to companies with 50 to 250 people, that is: the medium-size companies. They take 56% of the chart and the companies with more than 250 workers (large companies) occupy 35% of the chart leaving 9% for small companies with 50 members.