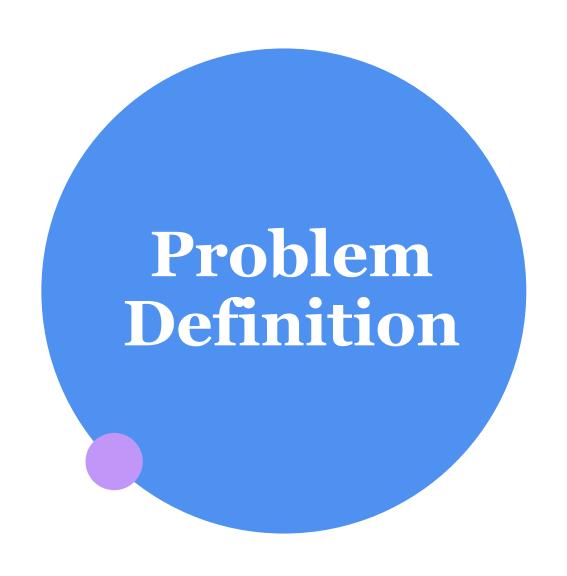
Analysis on Data Science Jobs Salamah Alawiye



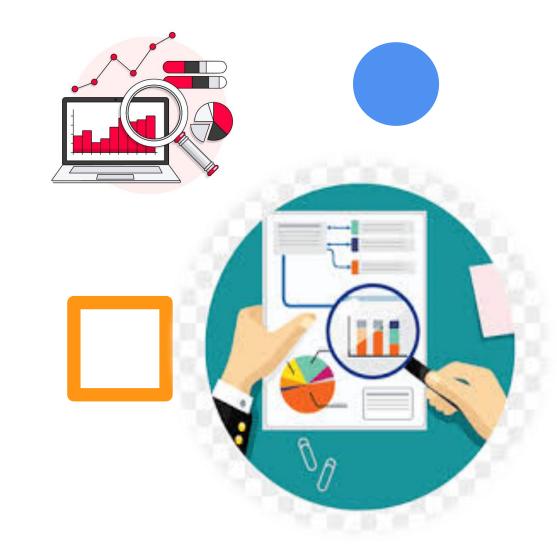
- Discover trends in the dataset
- Analysis on salary, remote ratio, experience level and location
- Insights
- Conclusion

Presentation Title 2

Introduction

Data science jobs are some of the fastest-growing, most in-demand in technology. Since 2012, Data Scientist roles have increased by 650 percent, and this rise shows no sign of stopping.

This analysis is to better understand these trends and have better understanding of data science roles with variation to experience levels, salaries, location and remote ratio.



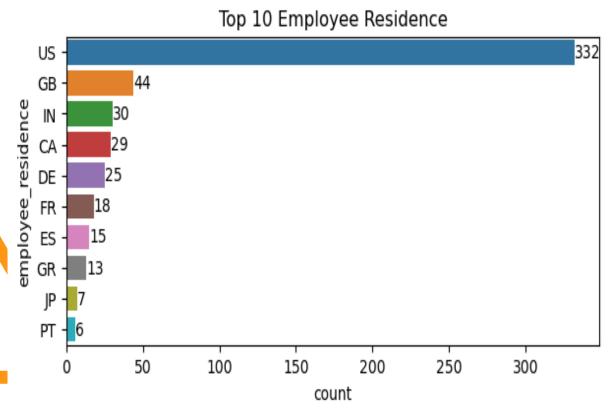
Analysis

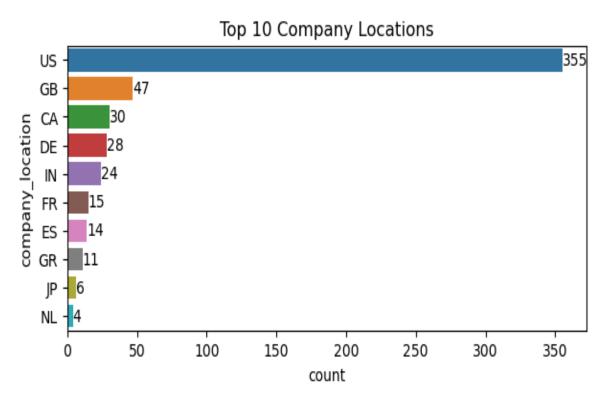
The tool used for this analysis is
Python. Data cleaning and
manipulation was also done to better
understand the dataset and generate
insights

Analysis of Location/Residence

Looking at the top 10 employee residences, the US has the highest number of employee(332) residing followed by Great Britain(44), then India and Canada.

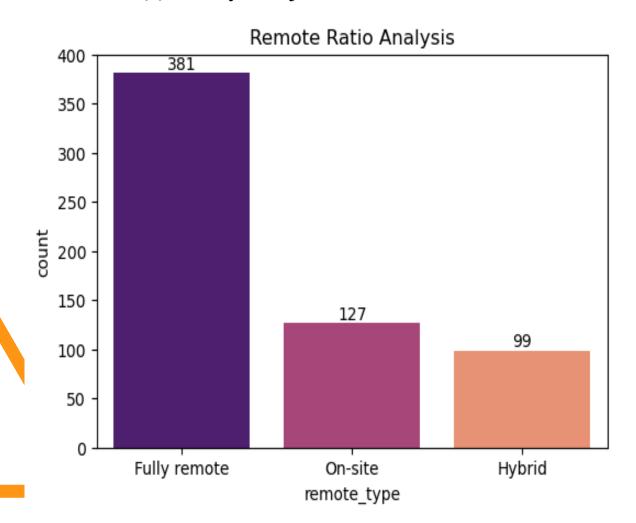
The top 10 company locations showed the US is at the top(355), followed by Great Britain(47), then India and Canada. This shows that employee residence is not dependent on the company's location.



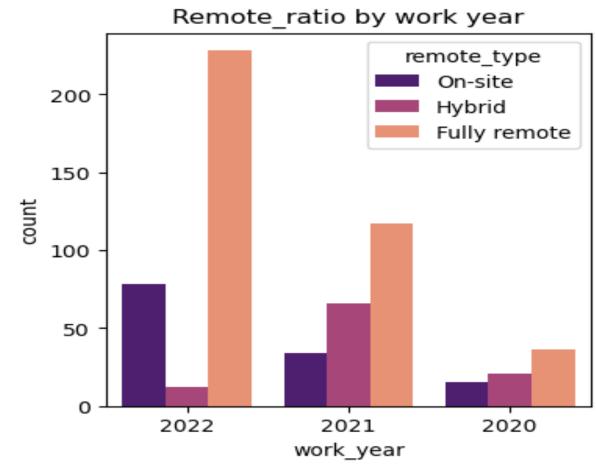


Analysis of Remote Ratio

381 are fully remote jobs, 127 are on-site jobs and 99 are hybrid jobs.

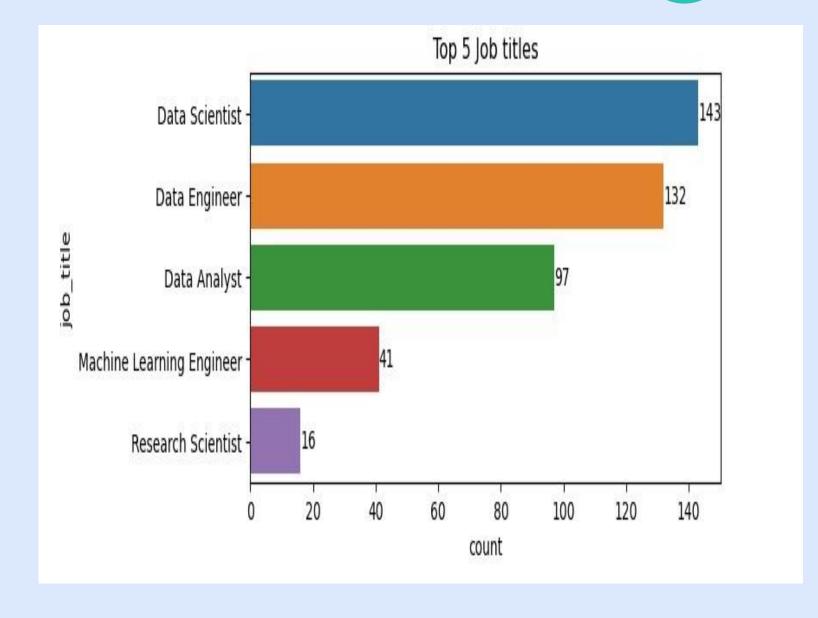


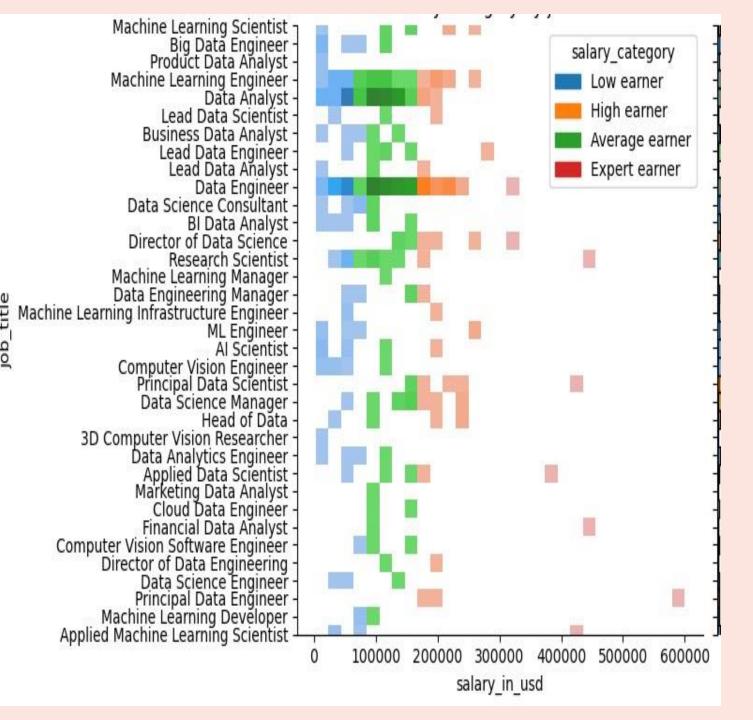
Irrespective of the year, fully remote job is the highest. However, on-site job was lower in 2020 but has gradually increased over the years, which could be due to covid suppression.



Analysis of Job Roles

Analysis of top 5 job roles: the highest being Data Scientist(143) and the lowest being Research Scientist(16).





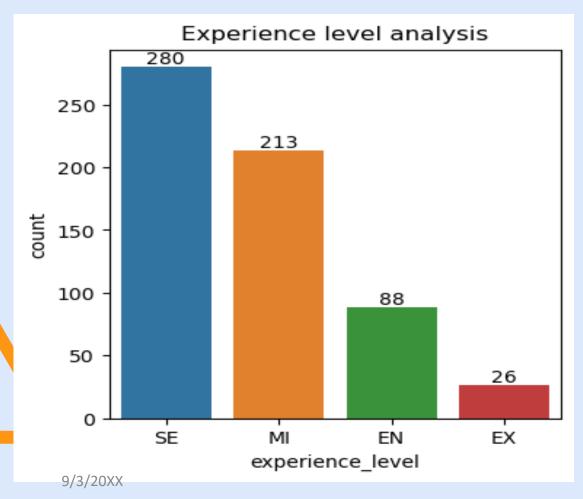
Analysis of Job Roles

The job role with the highest salary is Principal Data Engineer with almost 600,000.

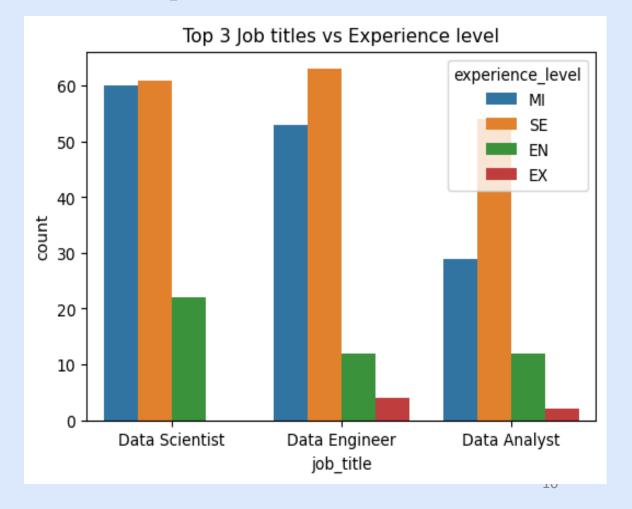


Analysis of Experience Level

Senior level/Expert had the highest count (280) and the least was the Executive/Director level(26)

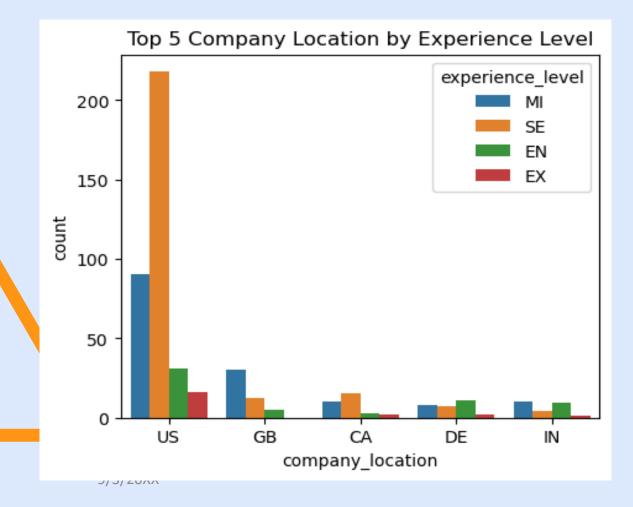


Senior level of experience is the most common to the 3 job roles, followed by intermediate levels of experience

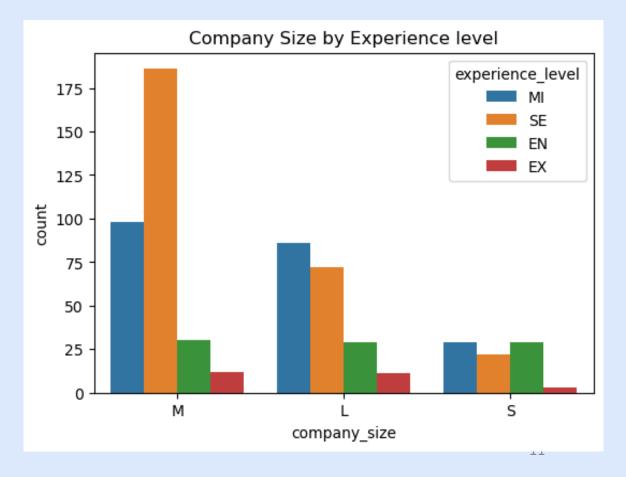


Analysis of Experience Level

Senior/Expert level is the highest in US and Canada, Mid/Intermediate level is the highest in Great Britain and India while Entry-level is the highest in Denmark

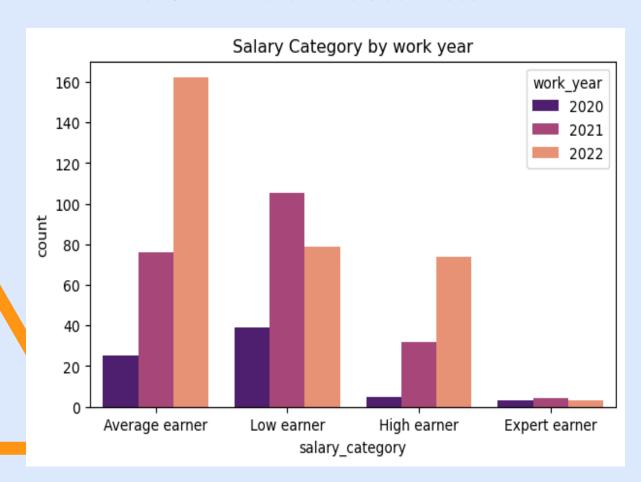


The medium sized companies have more senior staffs compared to intermediate staffs. Large and small companies have higher intermediate staffs to senior experienced staffs while small organizations have high entry level roles

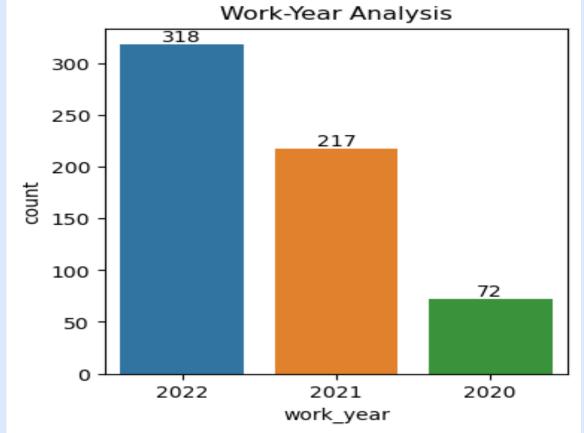


Analysis of Salary

Salaries have increased over time so there are more high earners and average earners while low earners have decreased

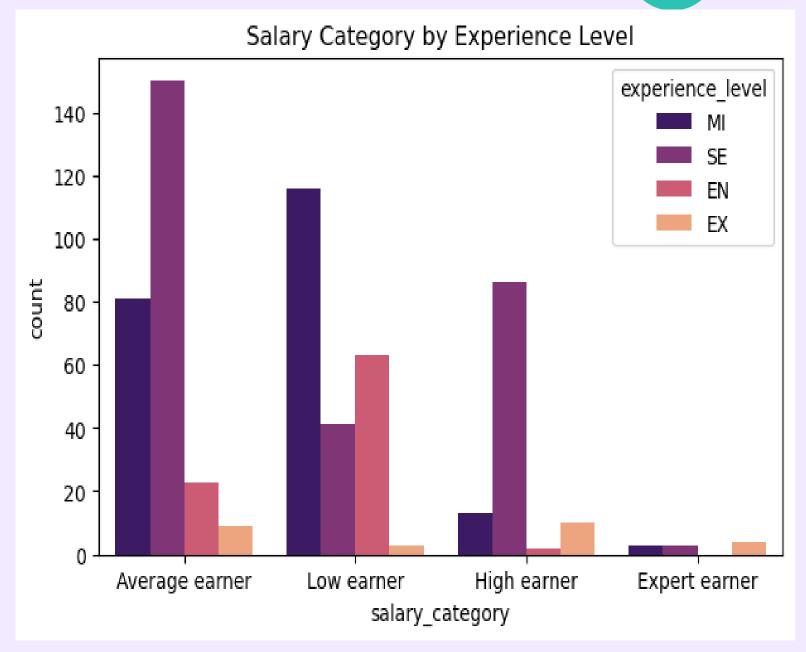


2022 had more salaries paid(318), then 2021(217), the least is 2020(72). This can be attributed to more people transitioning to the tech space.



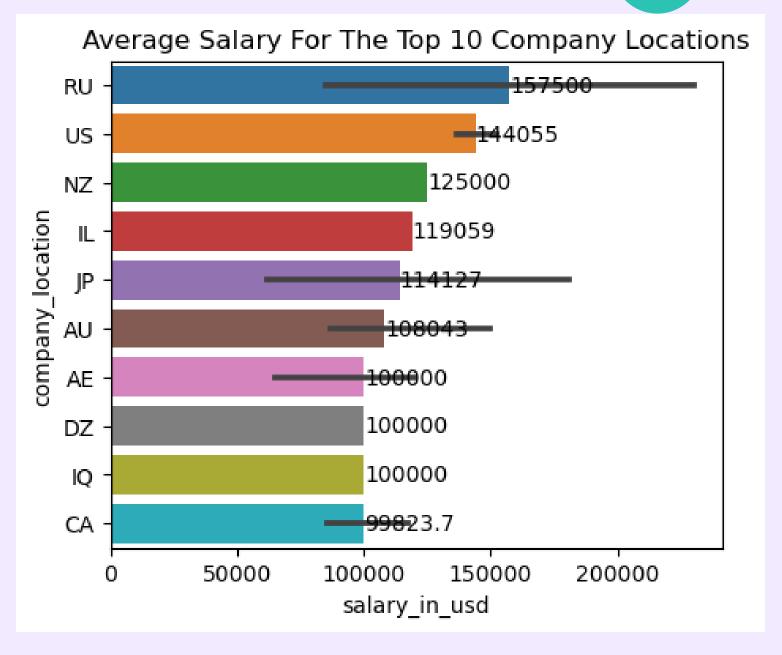
Analysis of Salary

Senior/expert experience level is more common in average and high earners while mid-level/intermediate is more common among average earners and low earners. Executives/Directors are the most common for the expert earner category.



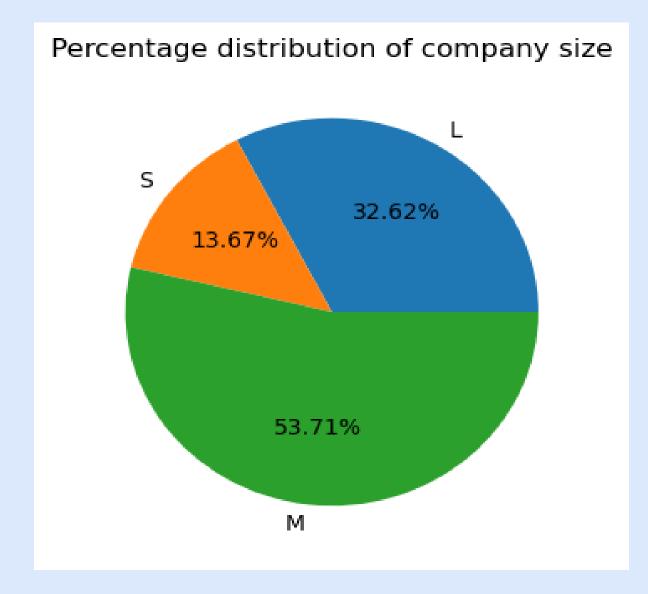
Analysis of Salary

Russia has the highest paying average salary of 157,500 and the least 10th country is Canada with 99,823.7 average salary



Analysis of Company Size

Medium-sized companies are the largest with 53.71%, followed by large organizations with 32.62% then small-sized organizations with 13.67%.



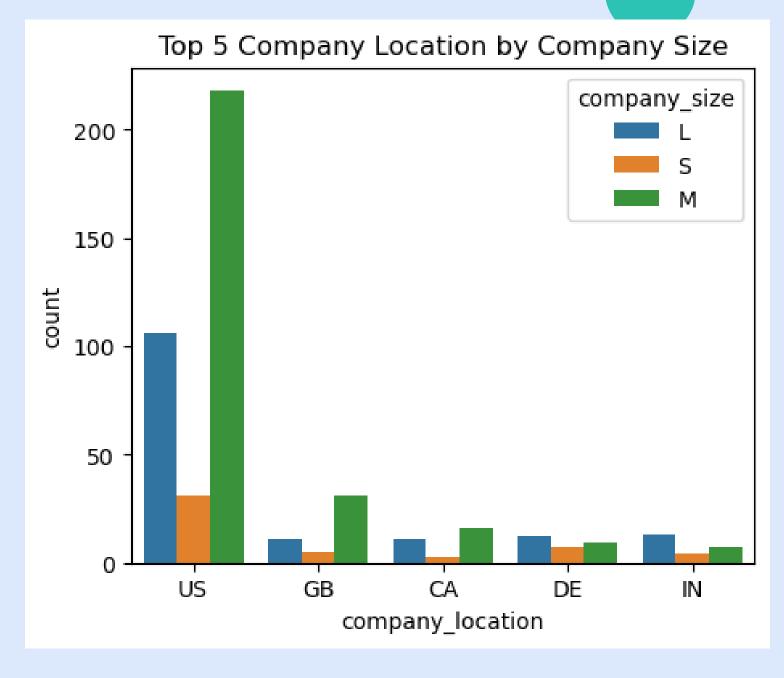
Analysis of Company Size

Small organizations have the least number of salary diversity and medium-sized organizations have more diversity but large company sizes have the highest number of Executives/Directors.



Analysis of Company Size

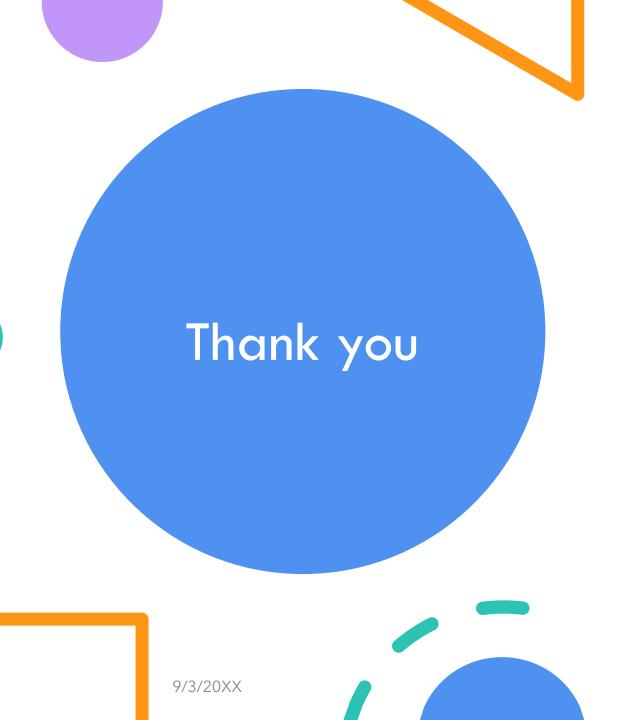
Medium sized companies are the most common in the top 3 countries but in Denmark and India, large sized organizations are the most common.



Summary

- Employee's residence is not solely dependent on company's location especially with remote opportunities
- Remote jobs are on the rise, however, with covid suppression, on-site jobs are also increasing
- The top 3 job roles are Data Science, Data Engineering and Data Analyst but Principal Data Engineer has the highest salary

- Senior/Expert level is the most common in occurrence among job roles
- Salary has increased over the years decreasing the number of low earners
- The company with the highest paying average salary is Russia(157,500)
- Medium-sized companies are the largest (53.71%), followed by large organizations(32.62%) then small-sized organizations(13.67%)



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