

# Data Related Job Posts in US

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**Data analysis, insights and recommendations**



# 1 - INTRODUCTION

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- **Title:**

**Data Analysis of job posts associated with data in US.**

- **Objective:**

**To identify job post statistics in US, to put on a clear table which may help both appliers and the companies.**

- **Data Source:**

**Kaggle - Data Job Postings**

# 2 – OVERVIEW OF DATA

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- **Number of observations**

**14,436**

- **Variables included**

**'title', 'company\_name', 'location', 'via', 'description', 'extensions', 'job\_id', 'thumbnail', 'posted\_at', 'schedule\_type', 'work\_from\_home', 'salary', 'search\_term', 'date\_time', 'search\_location', 'salary\_pay', 'salary\_rate', 'salary\_avg', 'salary\_min', 'salary\_max', 'salary\_hourly', 'salary\_yearly', 'salary\_standardized', 'description\_tokens'**

- **Data cleaning**

**Duplicates removed, missing values imputed or removed,  
column data types identified and corrected.**

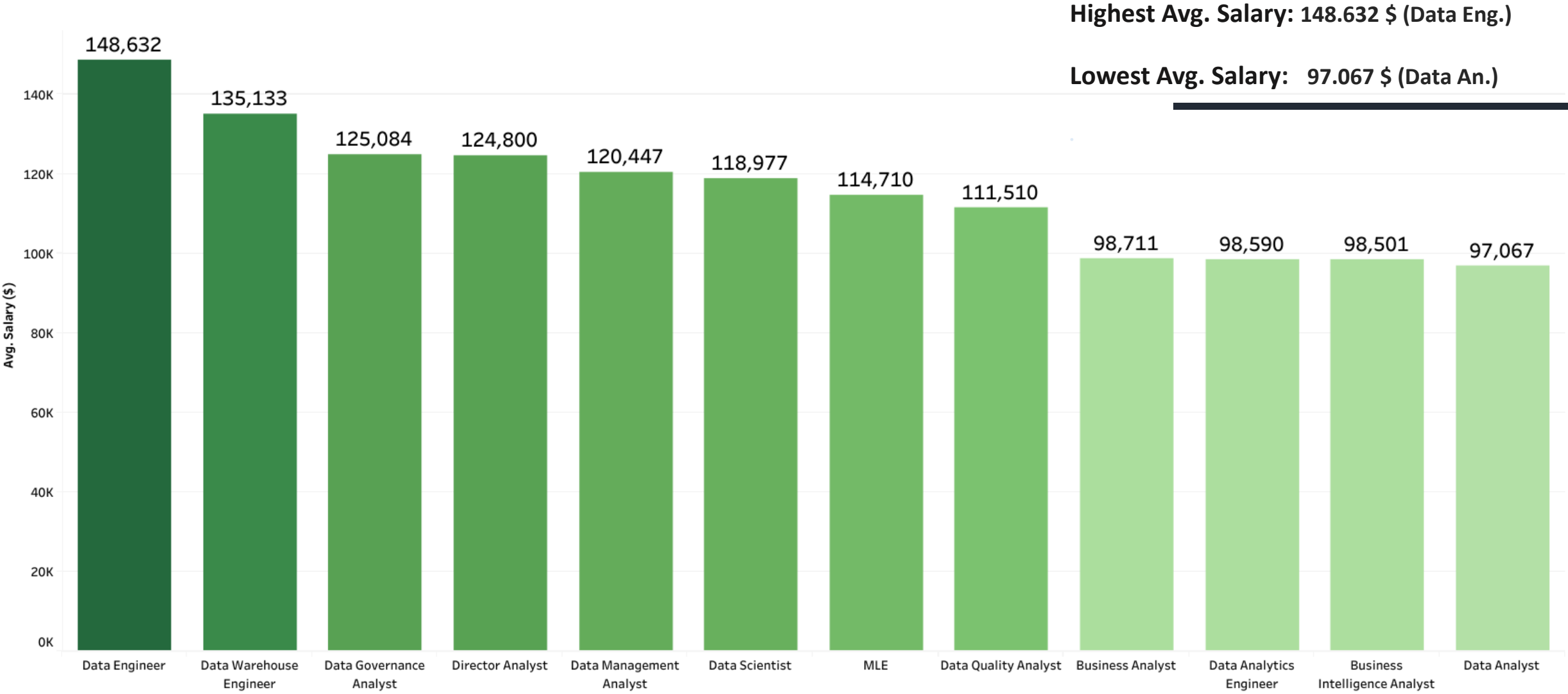


# 3 – DESCRIPTIVE ANALYSIS

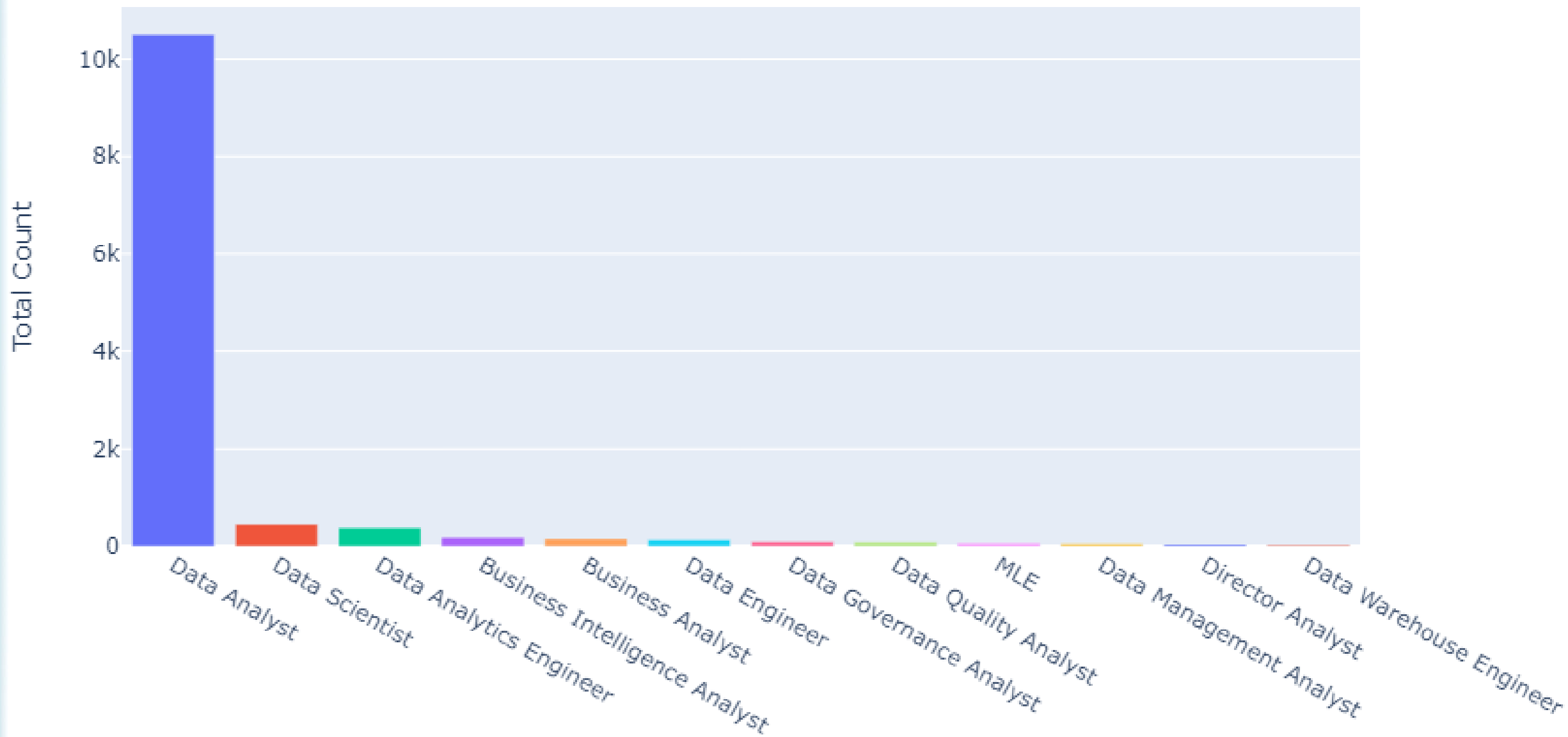
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- **Most Job Posts:** Data Analyst
- **Least Job Posts:** Data Warehouse Engineer
- **Most Job Posts (Platform):** LinkedIn
- **Most Job Posts (Job Type):** Full Time
- **Highest Salary:** 322.400 \$
- **Lowest Salary:** 18.720 \$
- **Most Job Posts (Seniority):** Junior
- **Most Job Posts (State):** Missouri

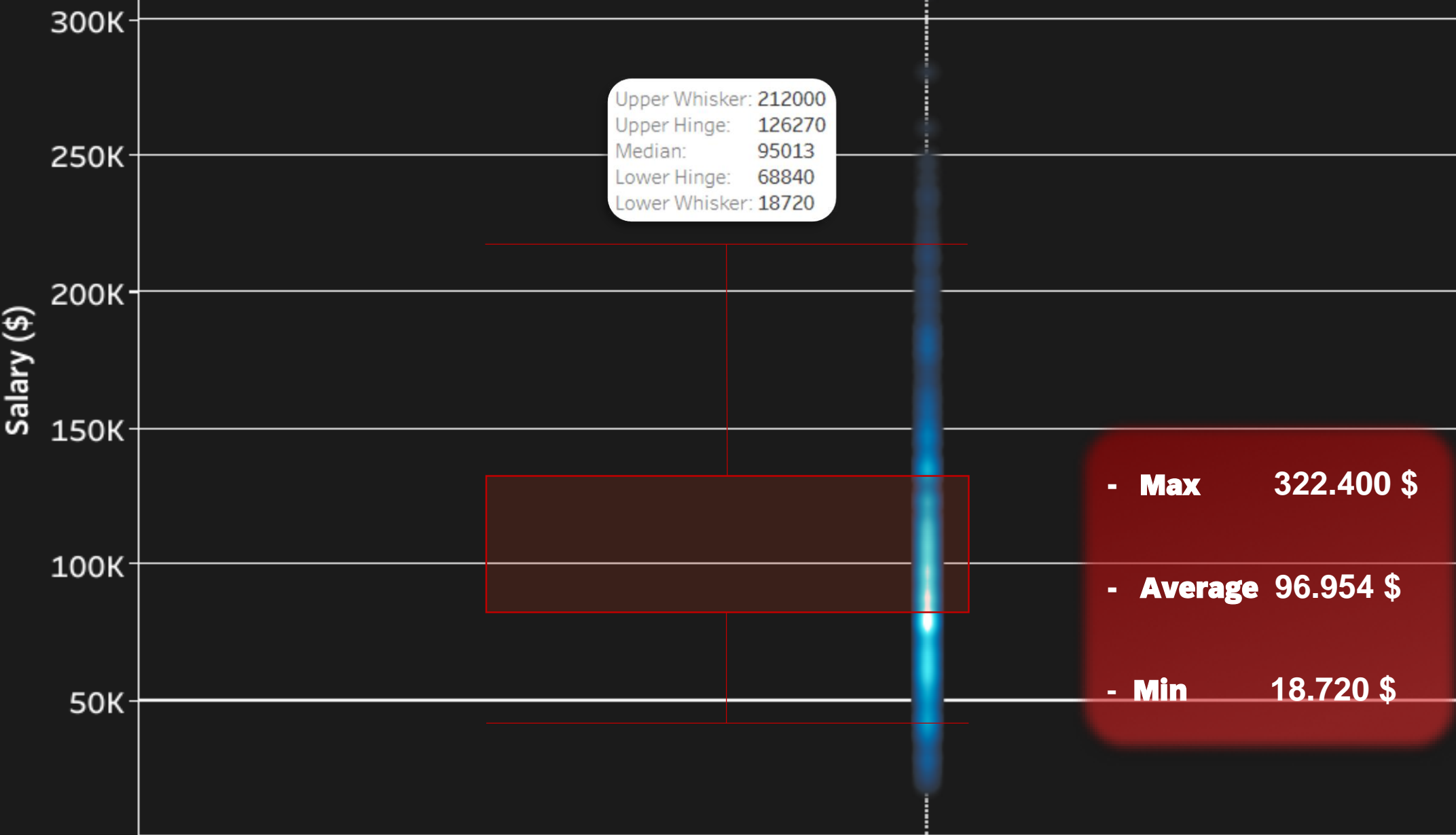
# Average Salaries based on job titles



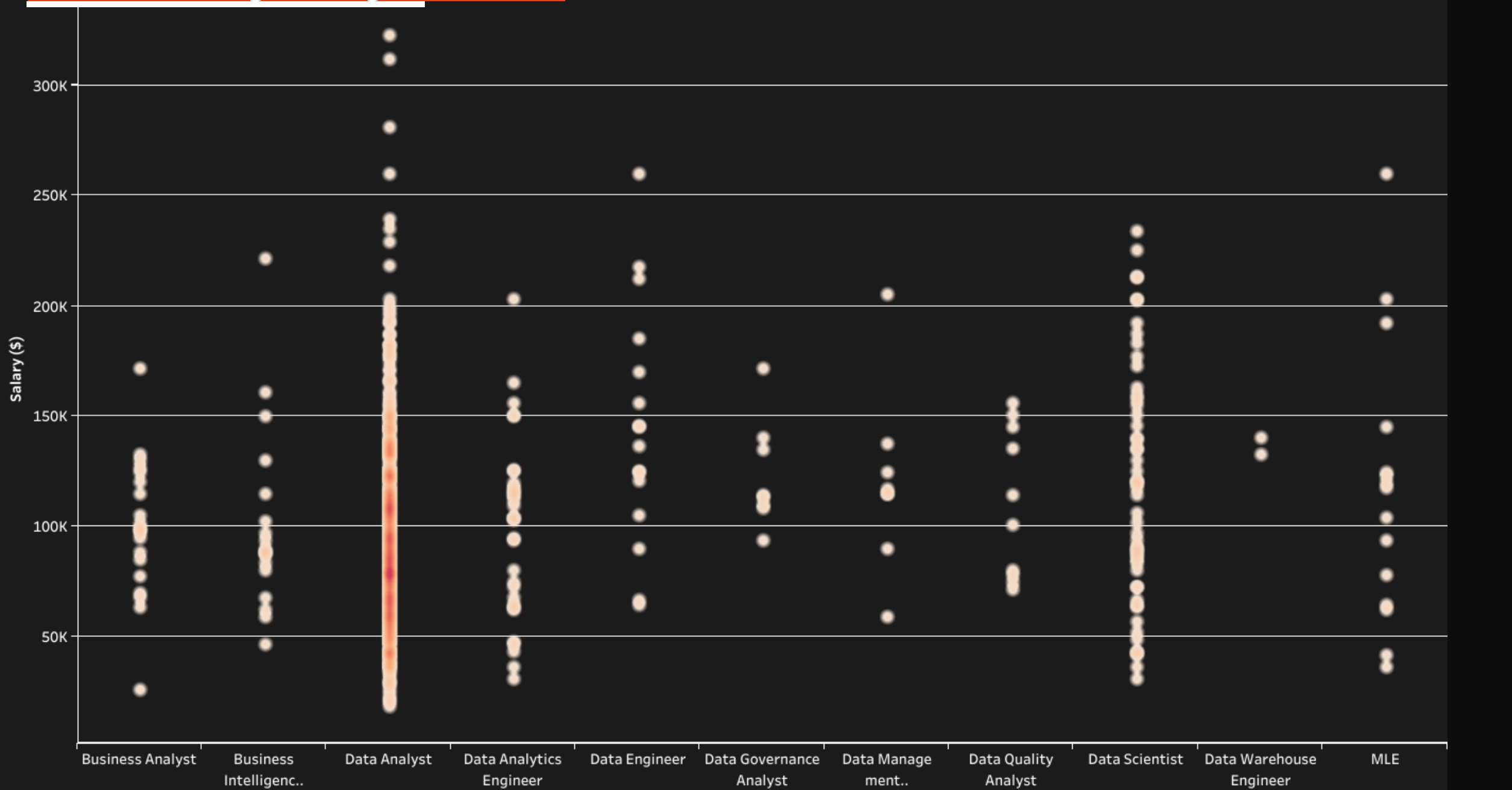
# Number of Job Post by job titles



# Salaries in the job posts



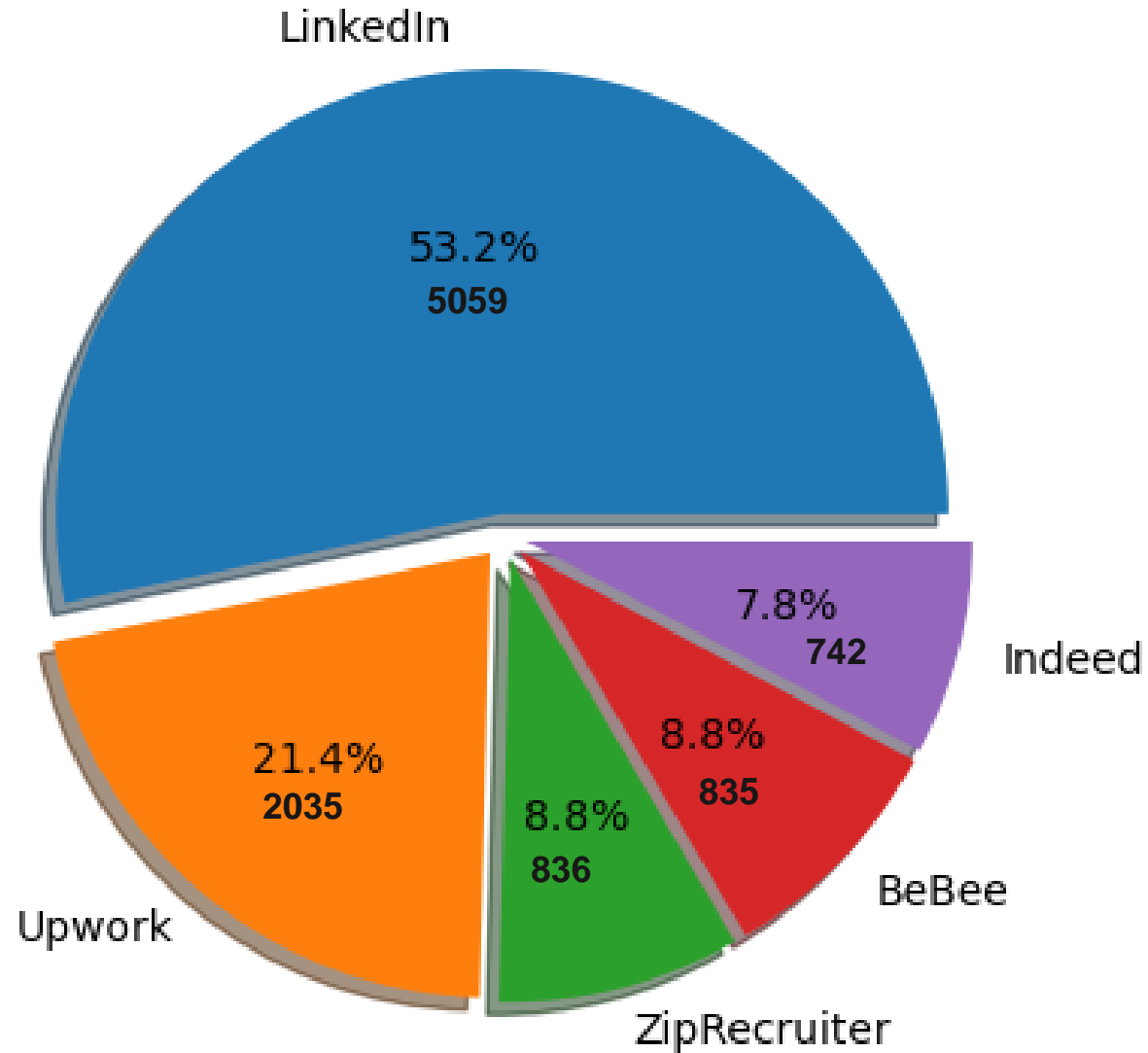
# Salaries by the job titles



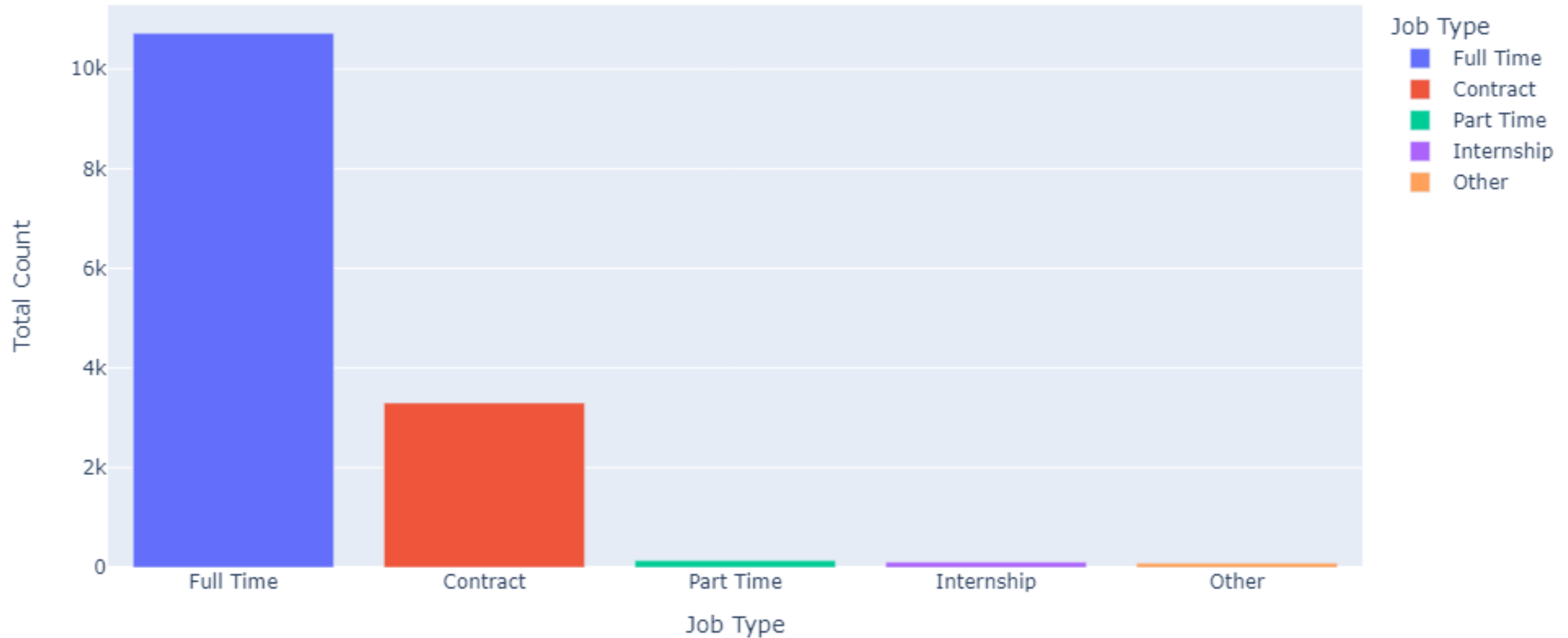


# Top 5 Job Platforms

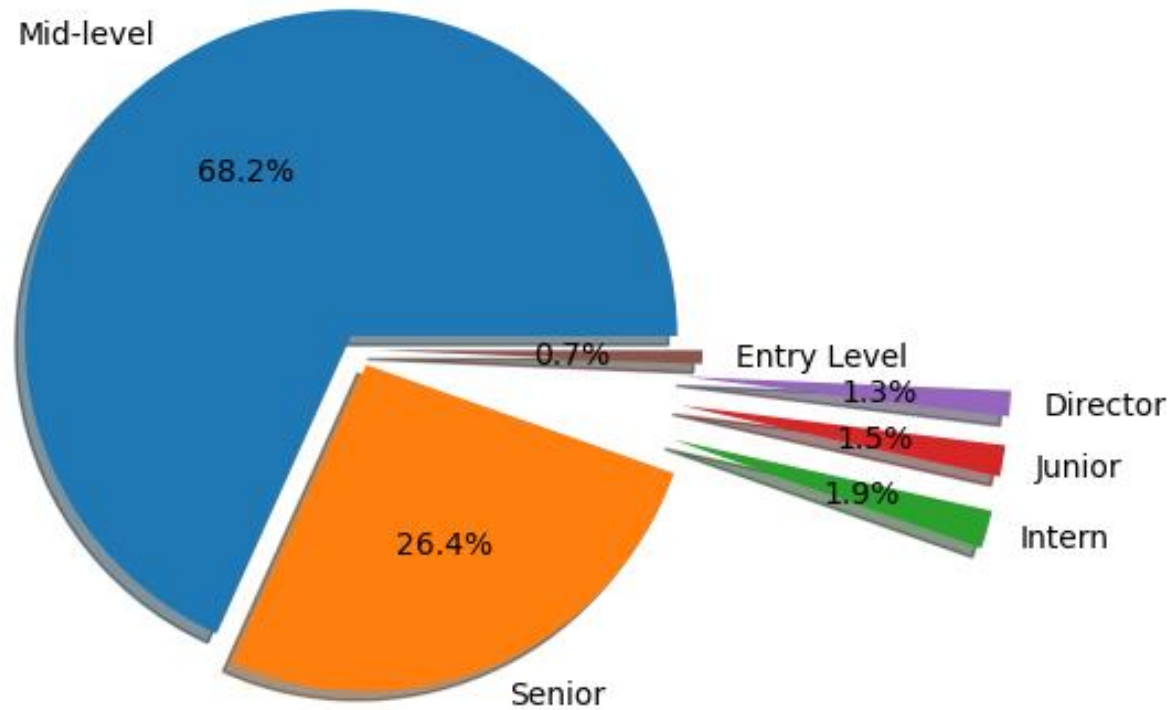
1 - LinkedIn	5059
2 - Upwork	2035
3 - ZipRecruiter	836
4 - BeBee	835
5 - Indeed	742



# Schedule types of the job posts



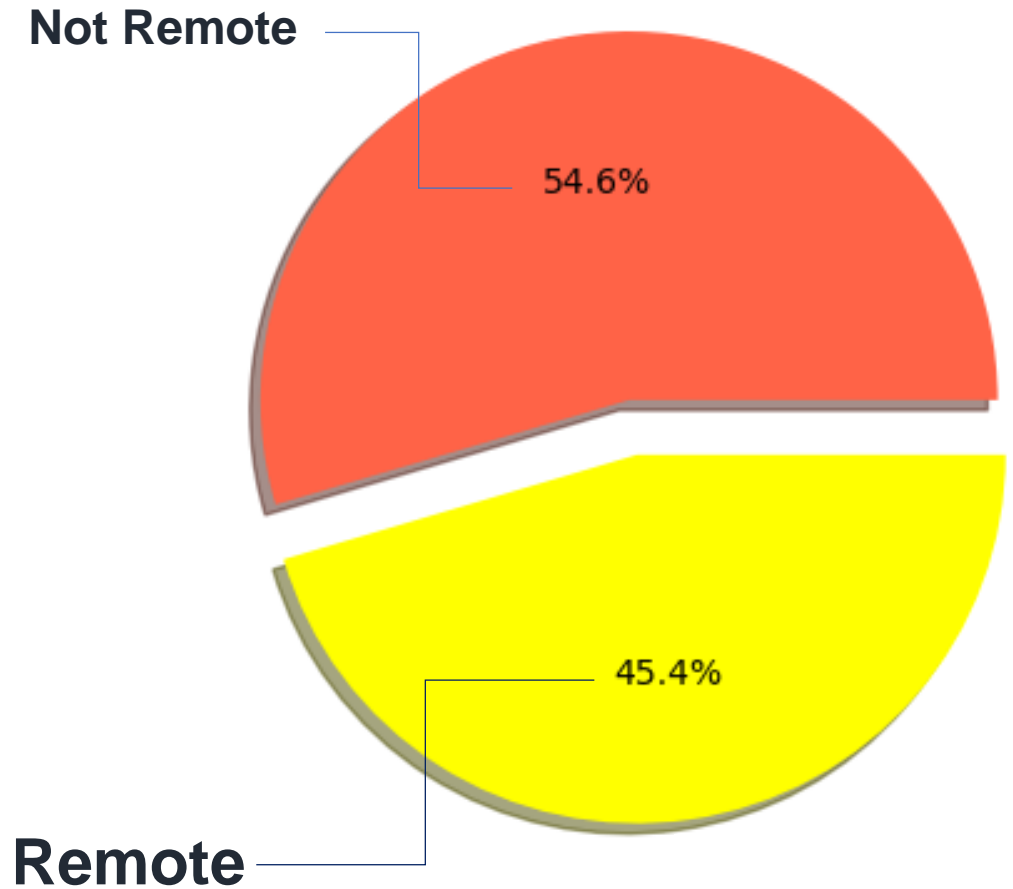
## Percentage of job posts by seniority



**Highest** : Mid-Level

**Lowest** : Entry Level

## Remote or not



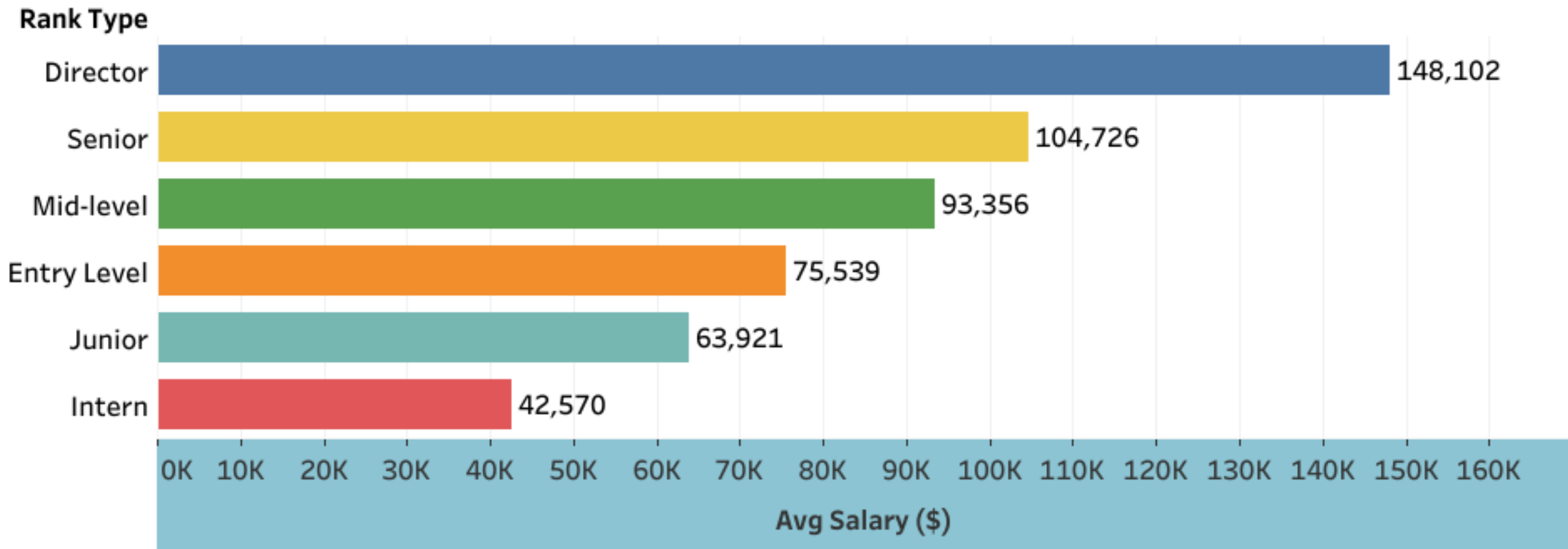
# Top 20 Highest Salary in Job Postings

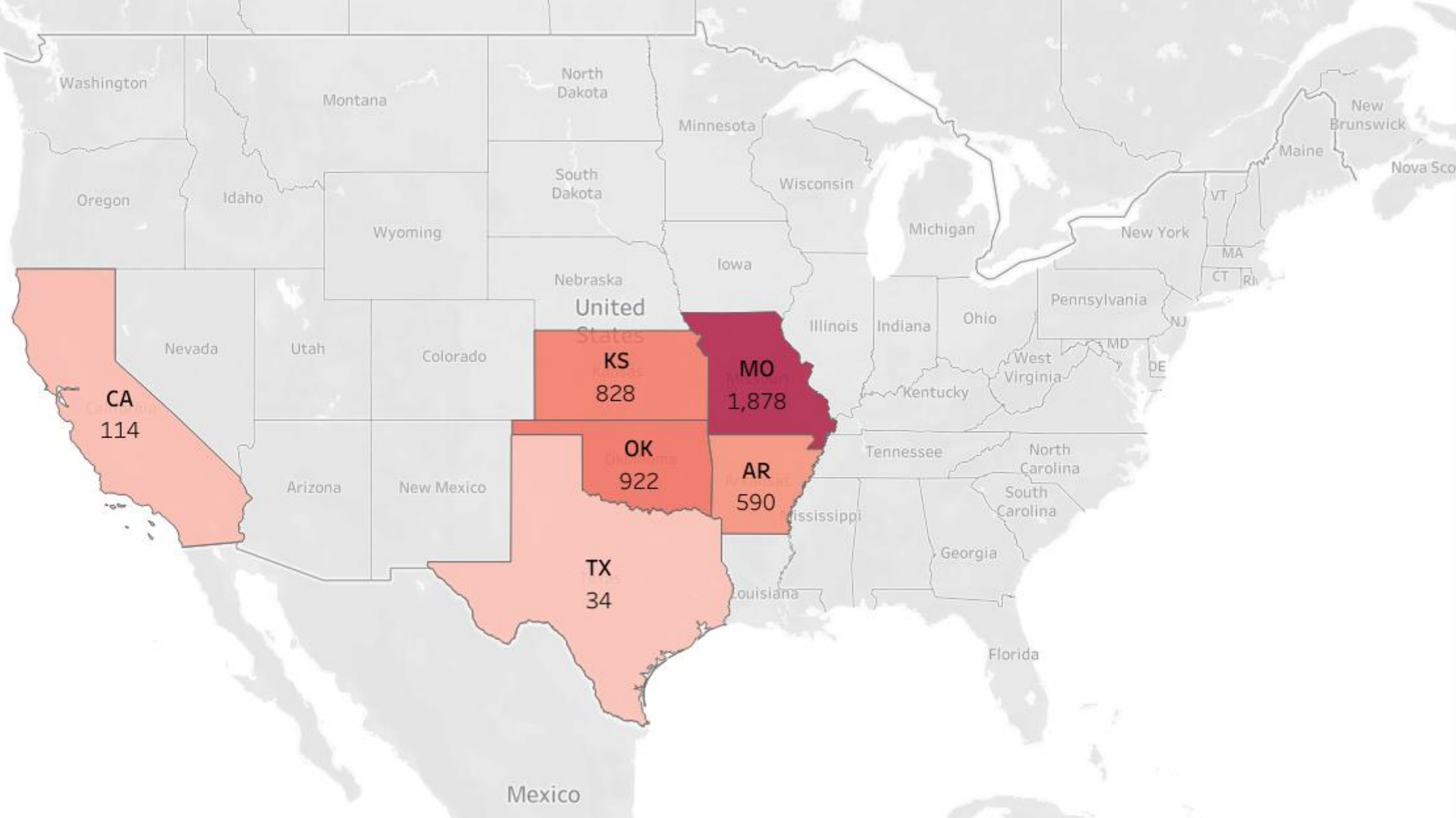
	Job Title	Annual Salary	Seniority
1	Data Analyst for Ecommerce and Marketing Agency	322400.0	Mid-level
2	Analyze census data	312000.0	Mid-level
3	Data Analyst	280800.0	Mid-level
4	Tableau prep/Data analyst expert	260000.0	Senior
5	Principal Data Engineer/Architect	260000.0	Director
6	Data Analysis	260000.0	Mid-level
7	PLS, ensemble models, decision tree algorithms	260000.0	Mid-level
8	Senior Data Analyst	260000.0	Senior
9	Consultation on Data Analysis for Master's Thesis	260000.0	Mid-level
10	Market research data analyst - Contract to Hire	260000.0	Mid-level
11	Amazon PPC Data Analyst	260000.0	Mid-level
12	Principal Data Engineer/Architect	260000.0	Director
13	Google Sheets + Data Studio Build using Supermetrics	249600.0	Mid-level
14	Google Tag Manager / GA4 Setup and Advanced Implementation	244400.0	Mid-level
15	Data Analyst: Python Scripts For Competitor Pricing - Contract to...	239200.0	Mid-level
16	Clinical Mapping Data Analyst	235040.0	Mid-level
17	Web Analyst	234000.0	Mid-level
18	Contract Data Scientist/Engineer - \$125 p/h	234000.0	Mid-level
19	Need statistician help for PhD dissertation analysis	228800.0	Mid-level
20	NFT Analyst - Contract to Hire	228800.0	Mid-level

**Highest :** Data Analyst for E-Commerce and Marketing Agency

- **2/20 Director**
- **2/20 Senior**
- **16/20 Mid Level**

# Average Salaries by Seniority





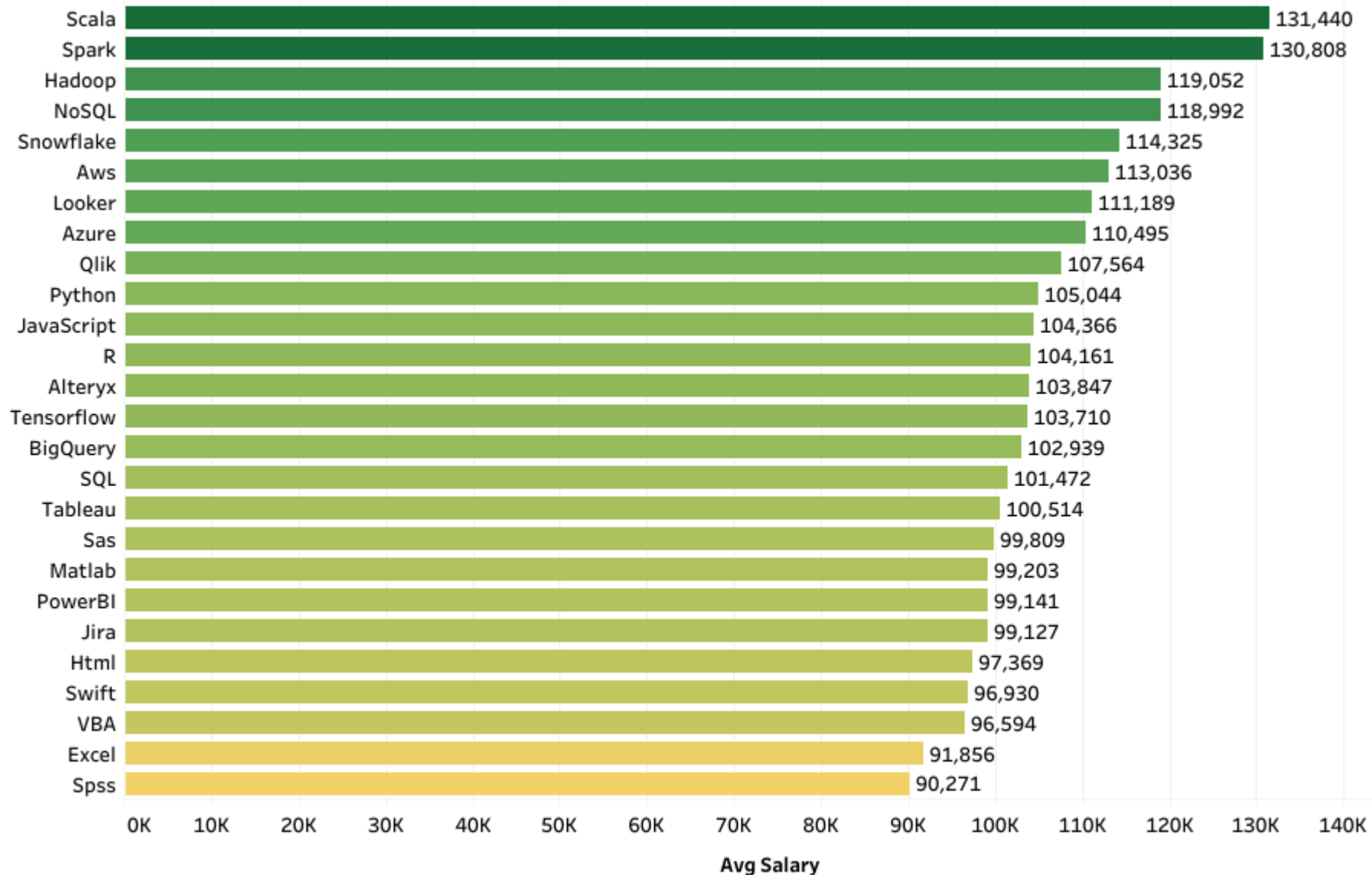
**Most Job Posts based on states**



## Which qualifications do employers demand most?



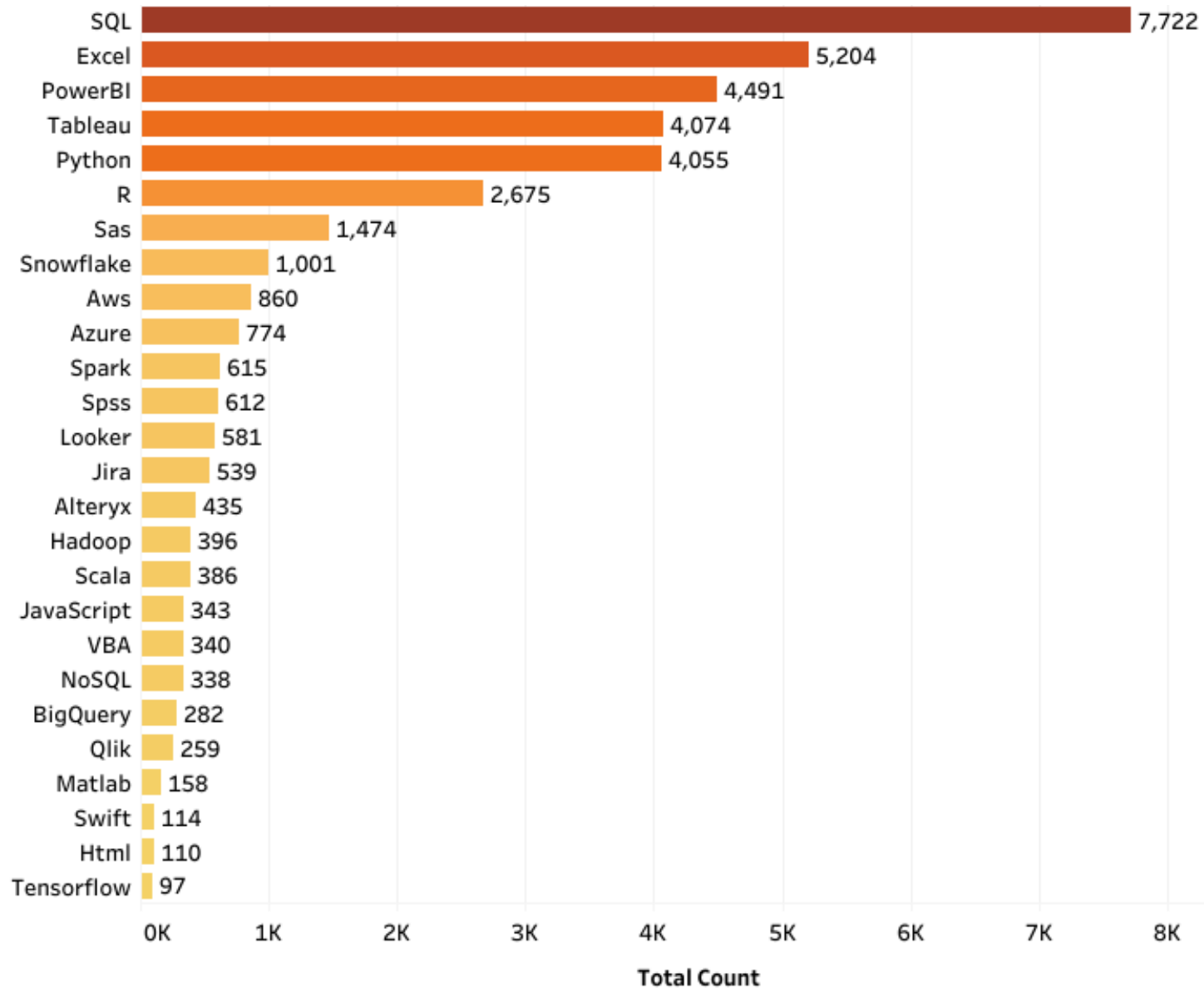
# Salaries by required qualifications



**Highest** : Jobs require **Scala**

**Lowest** : Jobs require **Spss**

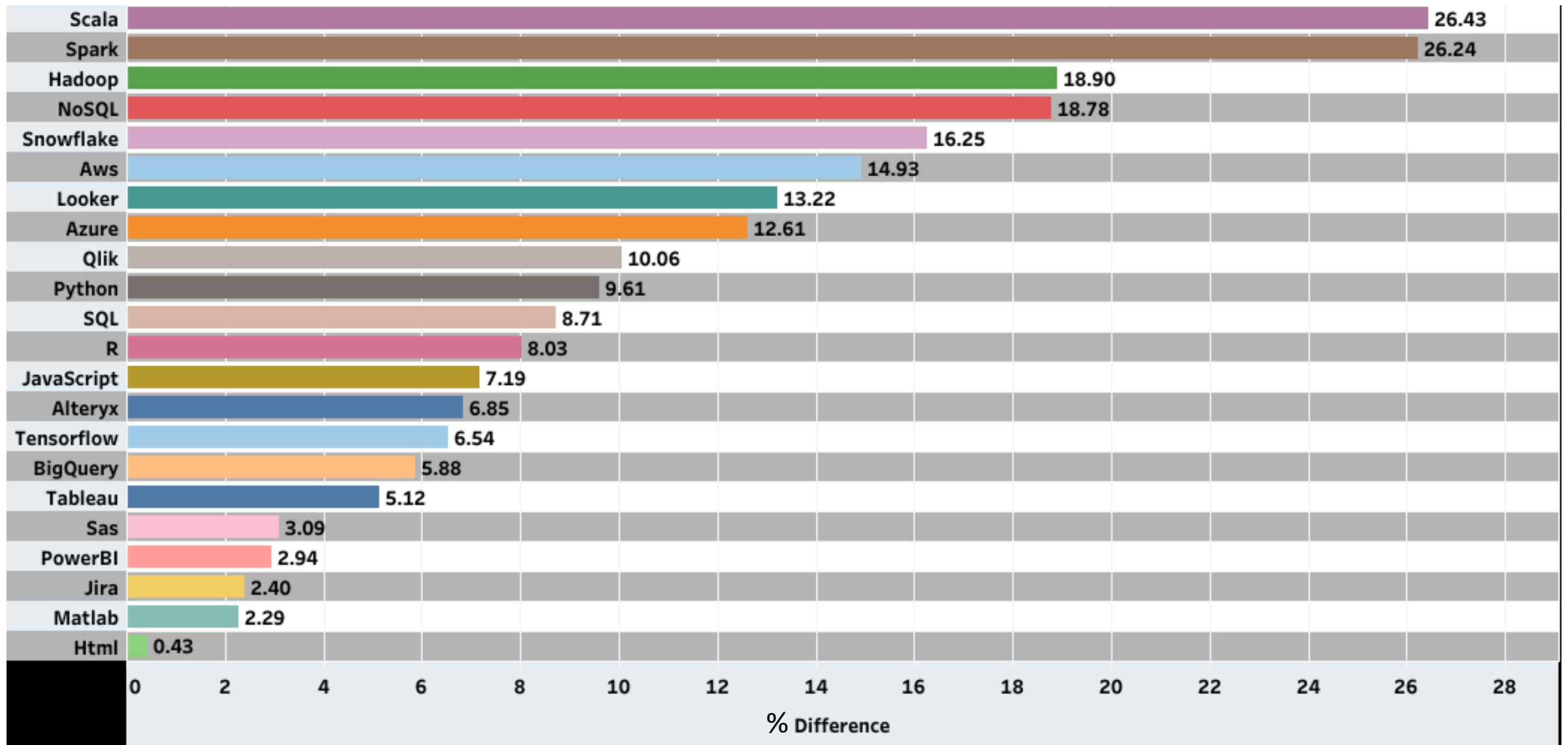
# Number of jobs by required qualifications



Highest : Jobs require **SQL**

Lowest : Jobs require **Tensorflow**

# How much does being capable of a qualification increase the salary?



This graph shows the difference between the salaries which is presented in the job post, including and not including that qualification.



# 5 – INSIGHTS

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- **SQL, Excel, PowerBI, Tableau, Python and R** are very high in demand. Job seekers should consider improving these skills.
- Highest salaries are given to people skilled in **Scala, Spark, Hadoop and NoSQL**.
- Even the total number of job posts which require **NoSQL** skill is less than job posts require **SQL** skill, salary is higher by the job posts require NoSQL skill.
- **LinkedIn** has more than half of the total job posts. It may be a good idea to check the job posts in LinkedIn.
- State of Missouri has the highest count of job posts. (Info Reliability:Low)
- Part time jobs and internships are a very little part of the total count. So delivering projects and gaining certificates are better ways to gain experience.

# 5 - INSIGHTS

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- **Data Engineers** are the highest salary group among the jobs related with data.
- Although data engineers are the highest salary group, highest salary (322.400 \$) is paid to a **data analyst**.
- Data analyst job postings has the highest number of job postings by far.
- Interns get paid an average of 42000 \$ annually which is a good point for starters in data industry.
- **Mid level jobs** may offer high salaries, even in some cases higher than jobs stated as senior and director jobs.
- %45,4 of the job postings offer **remote working** option which has many advantages such as flexibility, increased productivity and cost savings.



# 6 – CONCLUSION

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**In conclusion,**

- **By analyzing job postings data, we can gain a better understanding of the skills and qualifications that are most in demand in data related jobs, and use this information to make more informed hiring and career decisions.**
- **I hope this presentation has been informative and has given you a better understanding of how job postings data can be used to gain insights into the labor market. Thank you for your attention.**

***While this analysis has some limitations, including the availability and quality of the data, i believe that these recommendations provide a strong starting point for further exploration and improvement.***