



The promised sector? A Look at data professions

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The team



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Agenda

- 📄 Motivation
- 📄 Client's profile
- 📄 Introduction to data
- 📄 Global Perspective
- 📄 Data Analyst (DA) Perspective
 - 📊 Top 10 Job titles for analysts
 - 📊 Entry level demand for analysts
 - 📊 Remote opportunities for analysts
 - 📊 Worldwide salaries for analysts
- 📄 Recommendations to client



Motivation

To **explore** the current landscape of data professions and **provide** insightful visualizations and key **information** to help individuals assess a **career shift** into the field of data analytics (**DA**).





Clients' profile

Jessica Schultz Garrido

Residence: Frankfurt, Germany

Age: 33

- The client is considering a career shift to DA.
- The client resides is willing to relocate if profitable.
- Hybrid and remote work are preferred.
- No previous experience on IT, but willing to learn skills on demand.

**Stakeholders: HR in companies, training providers*



Introduction to Data

Dataset contains 73.412 entries.

Data spans from 2020 to 2025.

Source: aijobs.net



Salary insight:

Most salaries (USD) are concentrated between \$100,000 and \$200,000, with a few outliers reaching up to \$800,000.

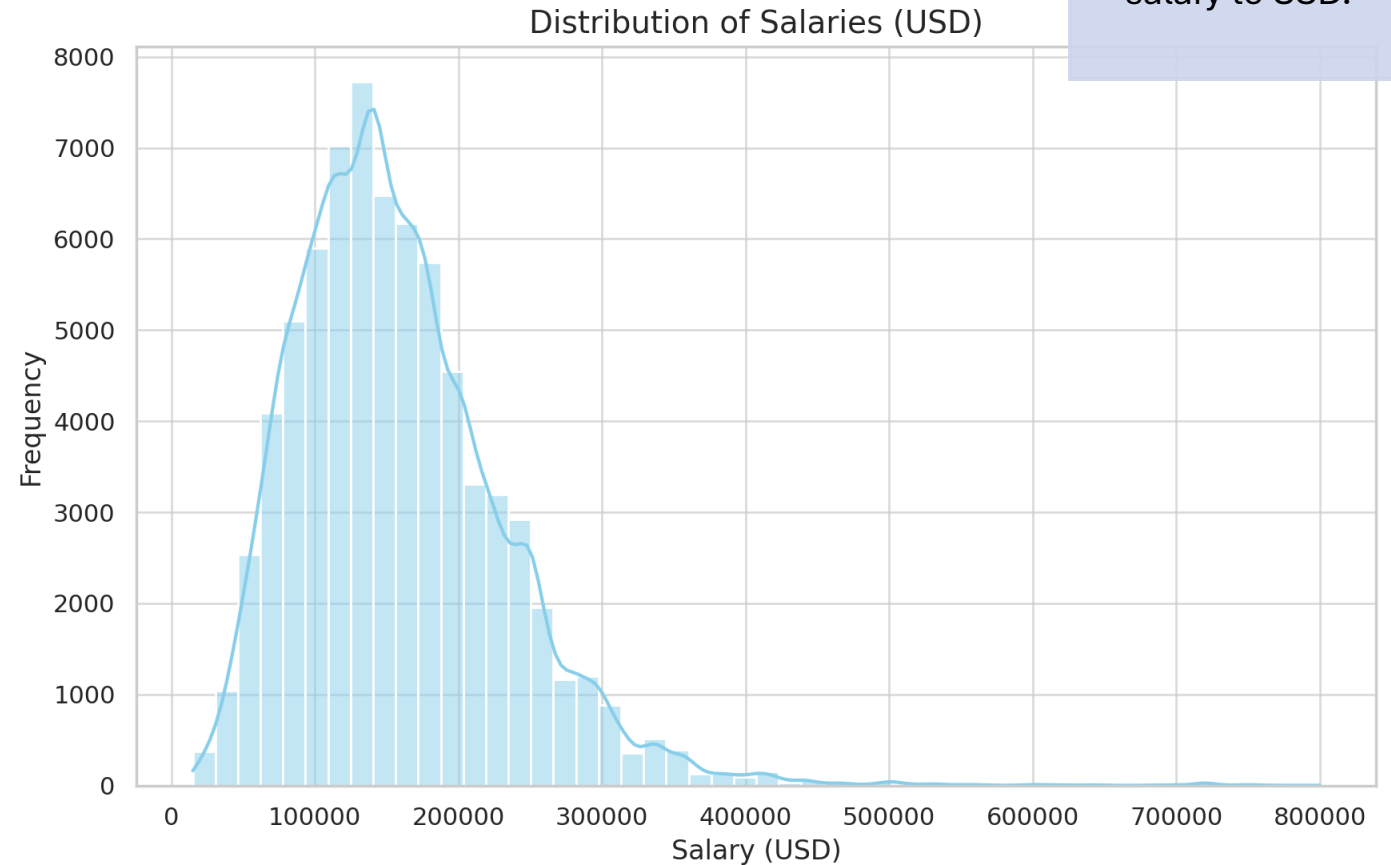
- **Descriptive statistics:**

Mean: 157,970 USD

Median: 147,500 USD

Min: 15,000 USD

Max: 800,000 USD



Salary:

Normalized
salary to USD.

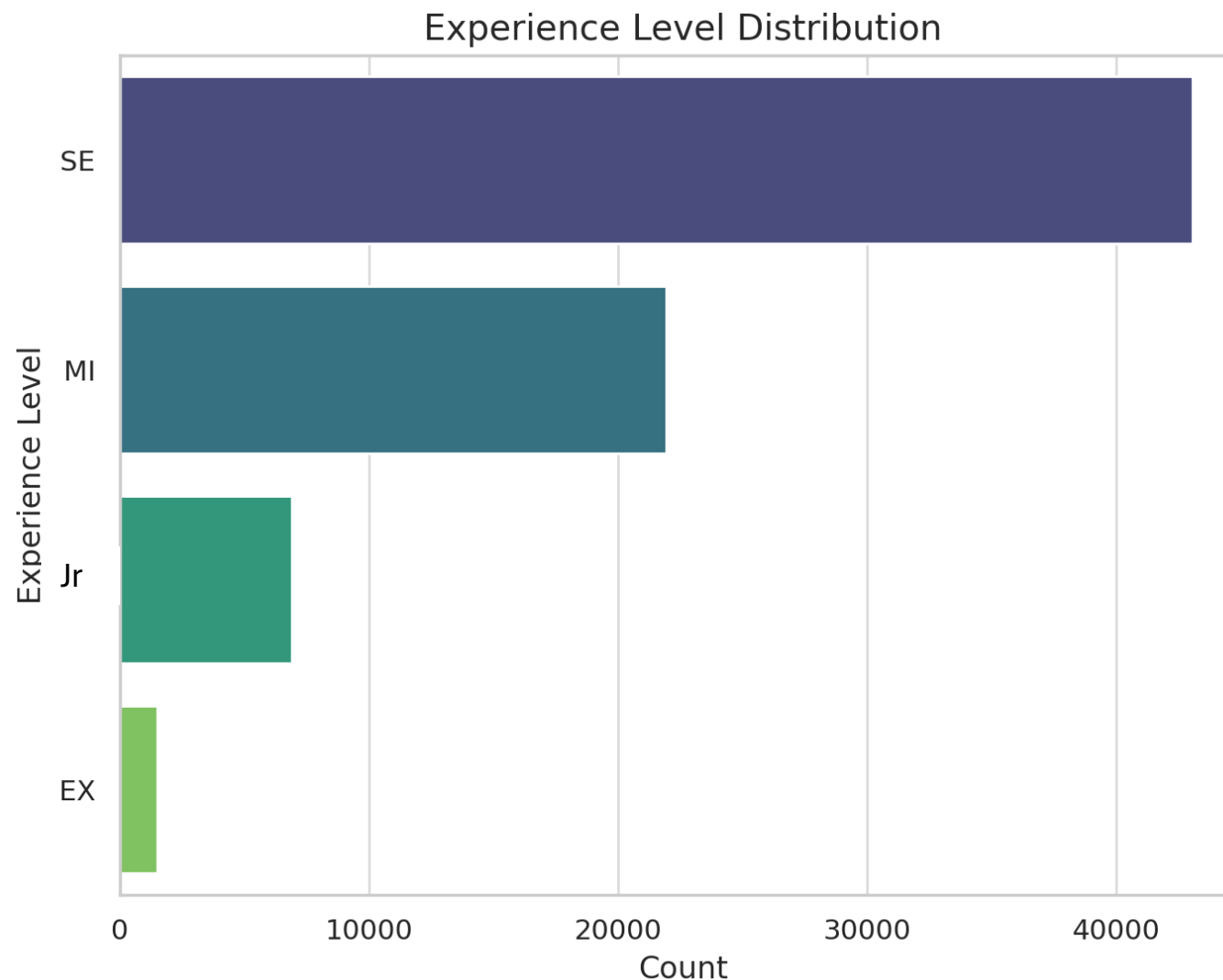
Experience Levels:

Experience Levels:

Junior level (Jr),
Mid Level (MI),
Senior Level (SE),
Executive Level (EX)

Senior Experience ("SE") dominates the dataset, followed by Mid-level ("MI").

Reasons behind SE could be related to company sizes.



Remote Ratio :

A large proportion of jobs are fully on-site (0% remote).

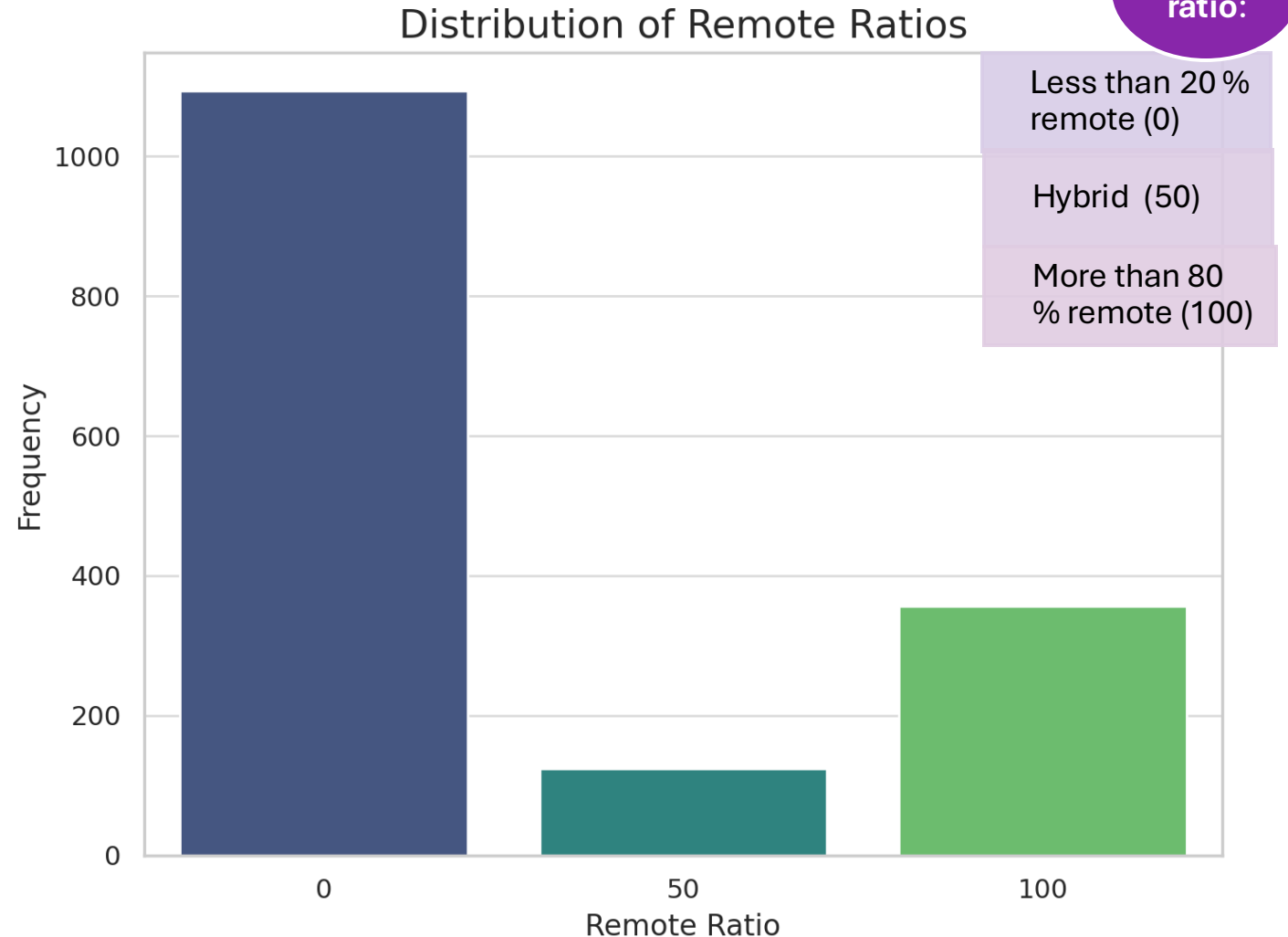
There is a notable number of fully remote jobs (100% remote), but hybrid roles (e.g., 50%) are less common.

- Descriptive statistics:**

Mean: 21.55%

Median: 0% (most jobs are on-site)

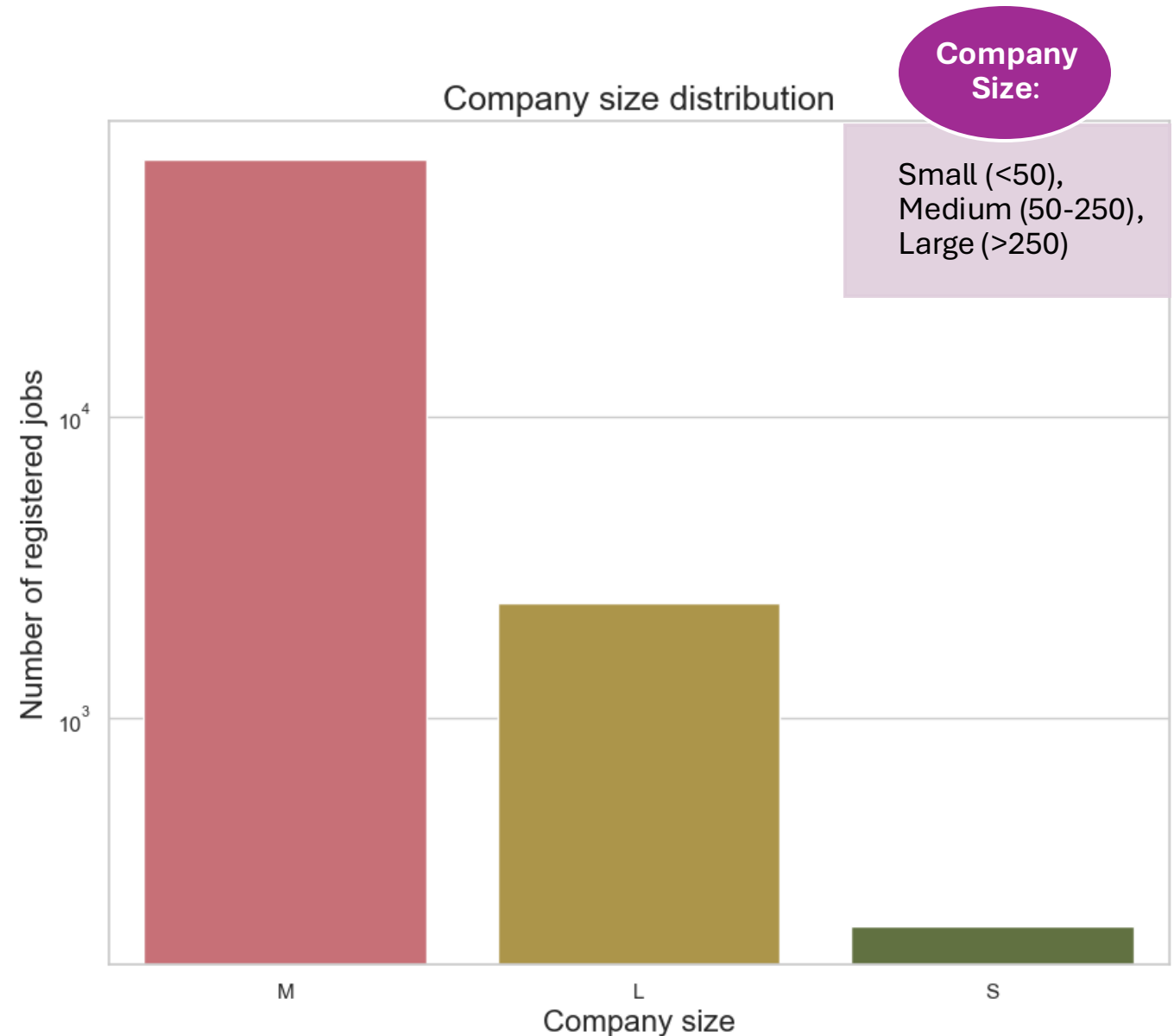
Range: 0% to 100%



Company Size:

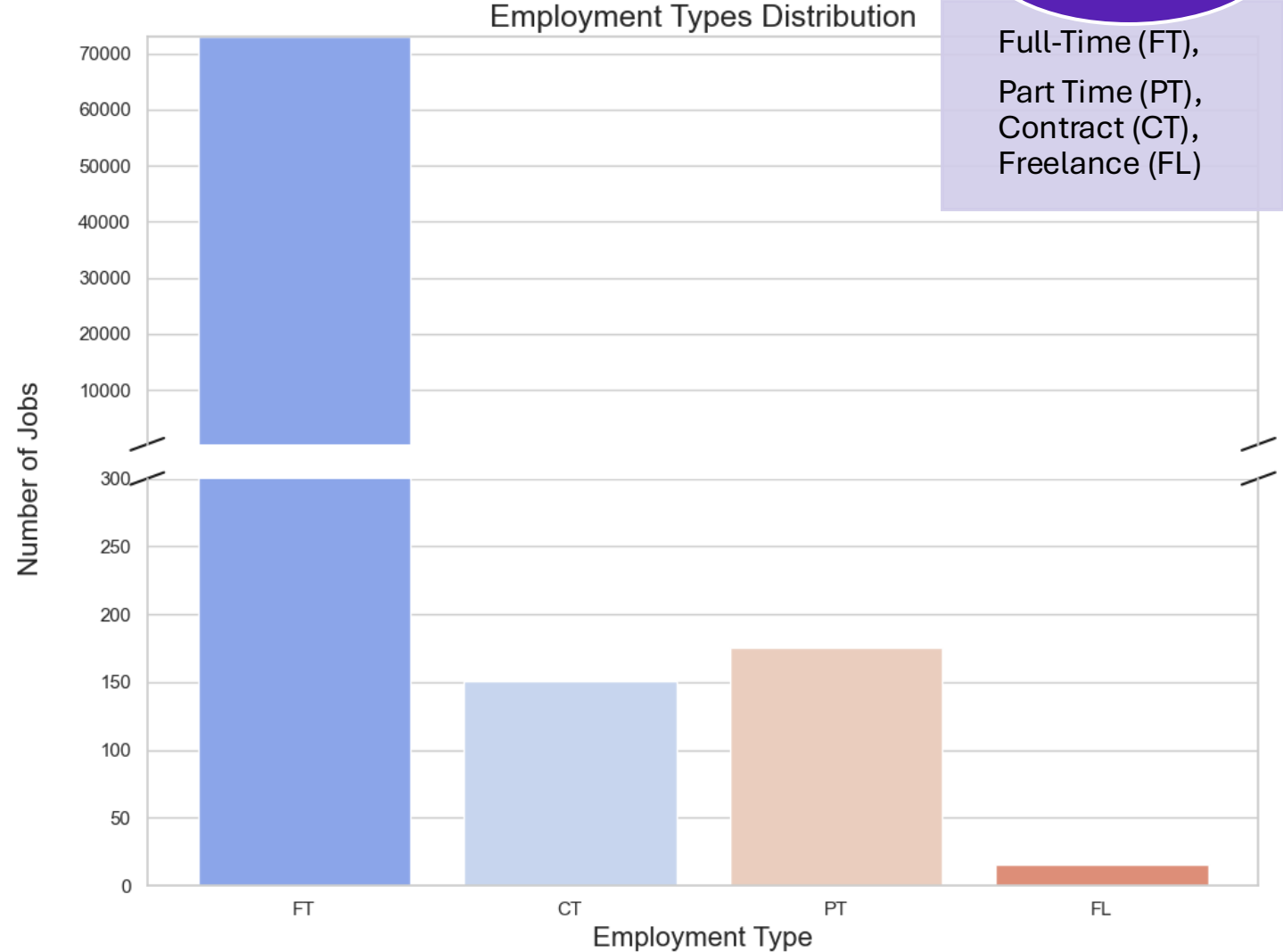
Medium-sized companies ("M") are the most common, significantly outnumbering small ("S") and large ("L") companies.

The low frequency of Data professions in small companies could be because of budget limitations that are reflected in the hired staff.



Employment type:

Full time (FT) leads the employment type in the Data professions. The Freelance (FL) is the least common employment type.



Correlation Analysis:

Numerical variables:

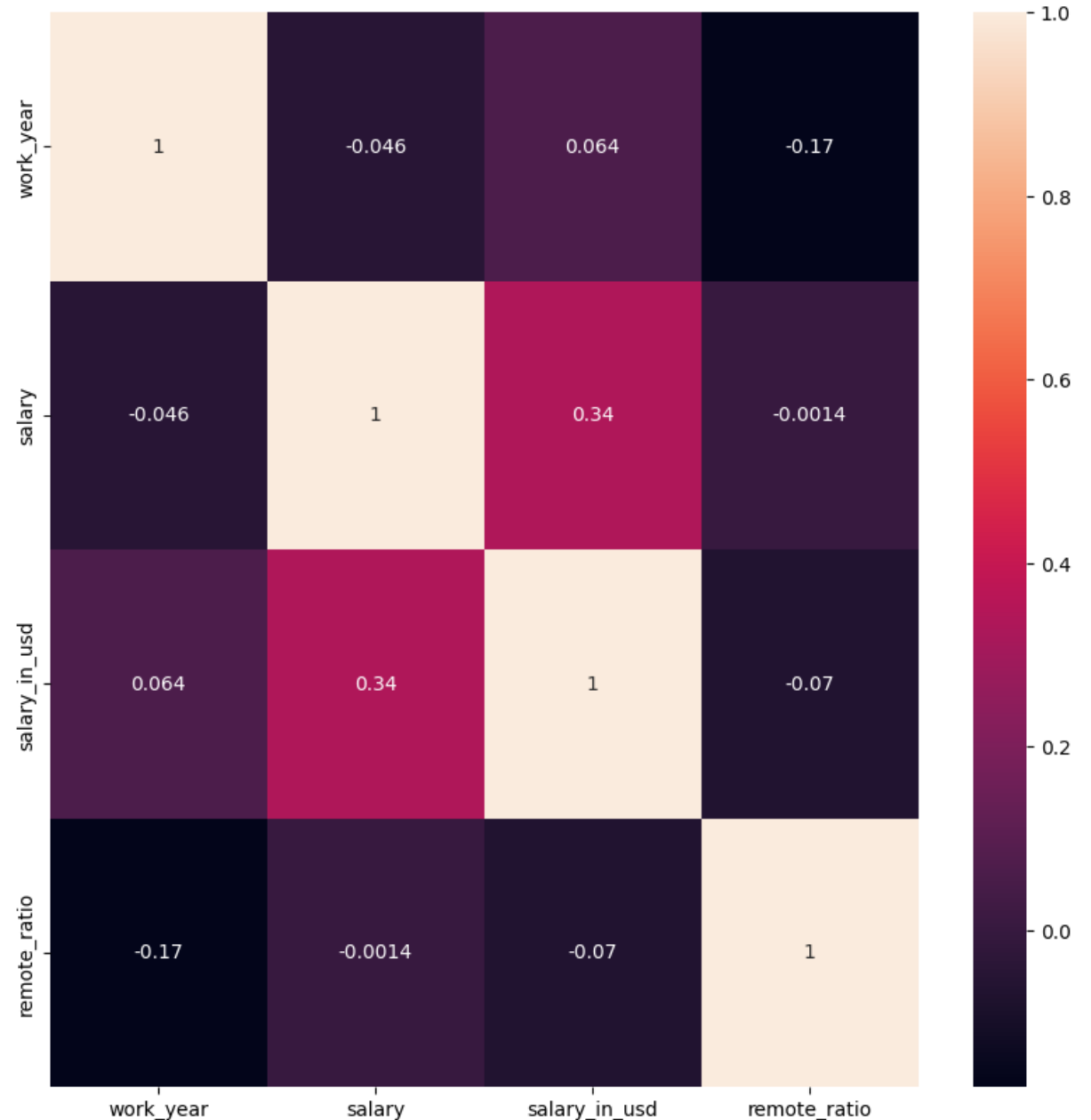
Weak correlations observed in general
(**value lower than 0.5**)

Salary variations are not strongly
dependent on the remote ratio.

Notes:

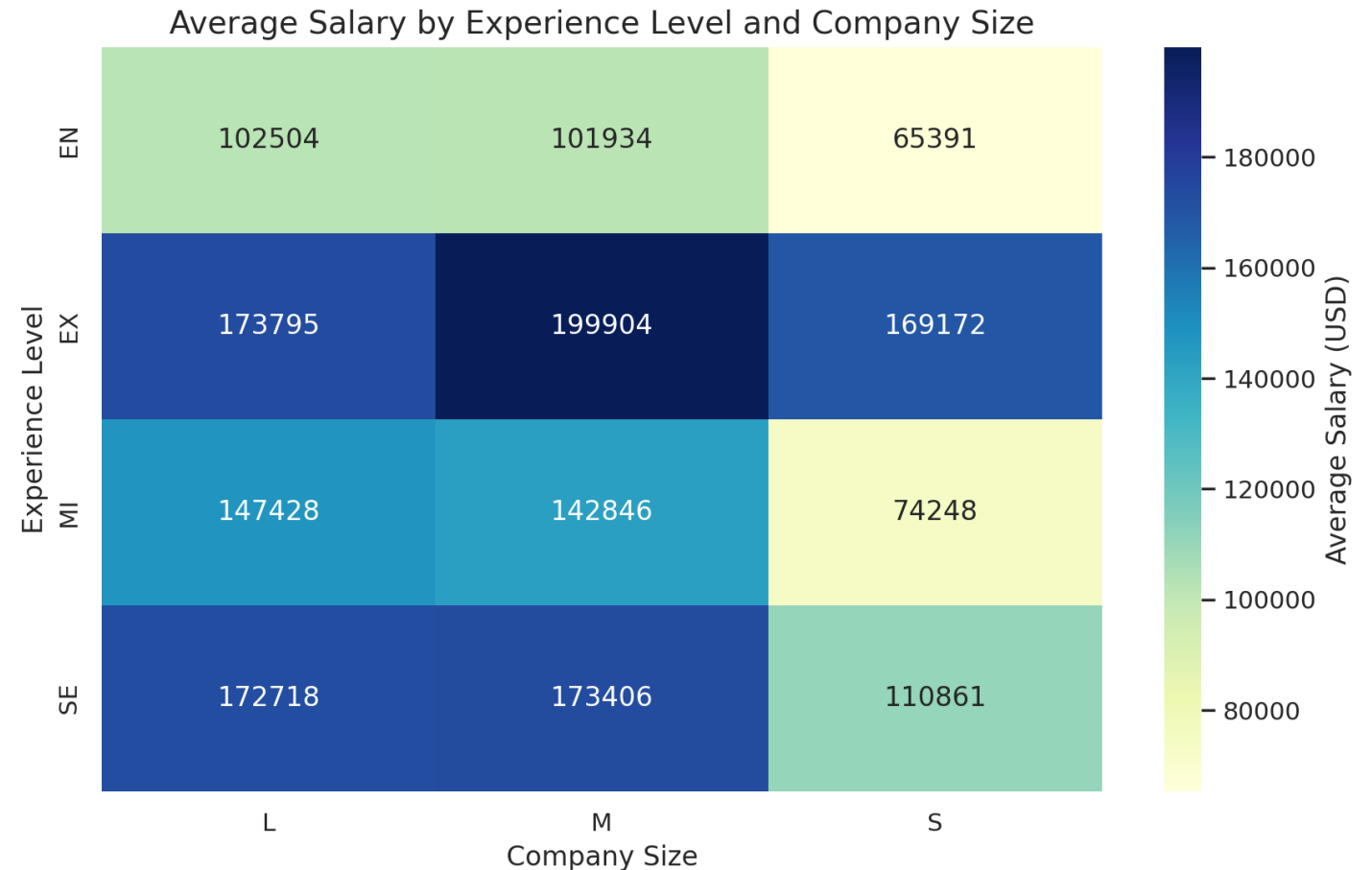
Salary: in original currency

Work year: span 2020-2025.



Average Salary by Experience Level and Company Size:

- Senior-level roles ("SE") have the highest average salaries across all company sizes.
- Large companies ("L") offer the highest salaries for senior roles.
- Small companies ("S") generally pay less across all experience levels.





Global Perspective

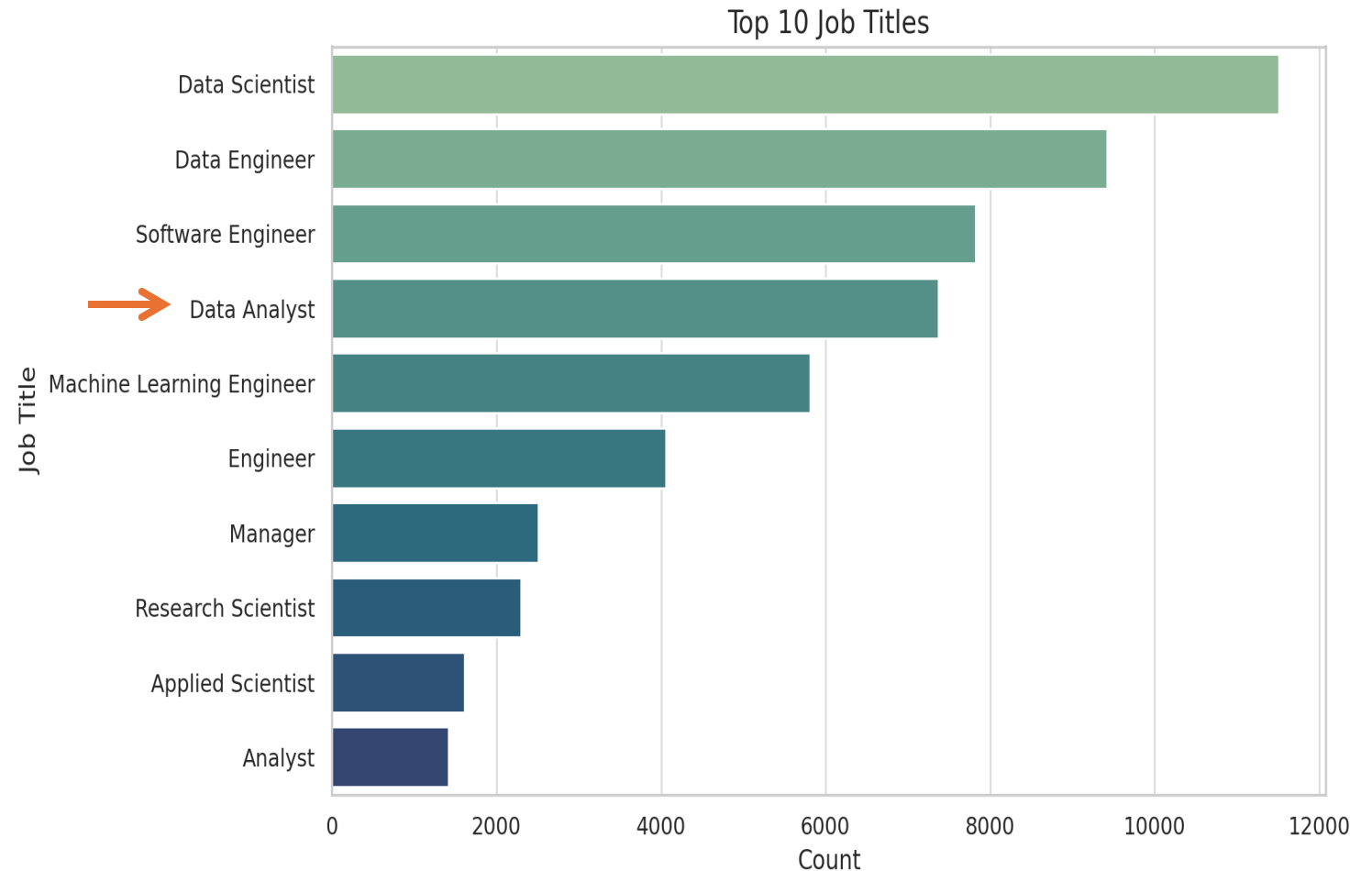
Analysis of data professions
worldwide, in Europe and in
Germany



Top 10 Data jobs worldwide (WW):

"Data Scientist" is the most frequent job, followed by roles like "Data Engineer" and "Software Engineer."

Data Analyst is the Top 4 data profession!



* Frequencies based on the used dataset.

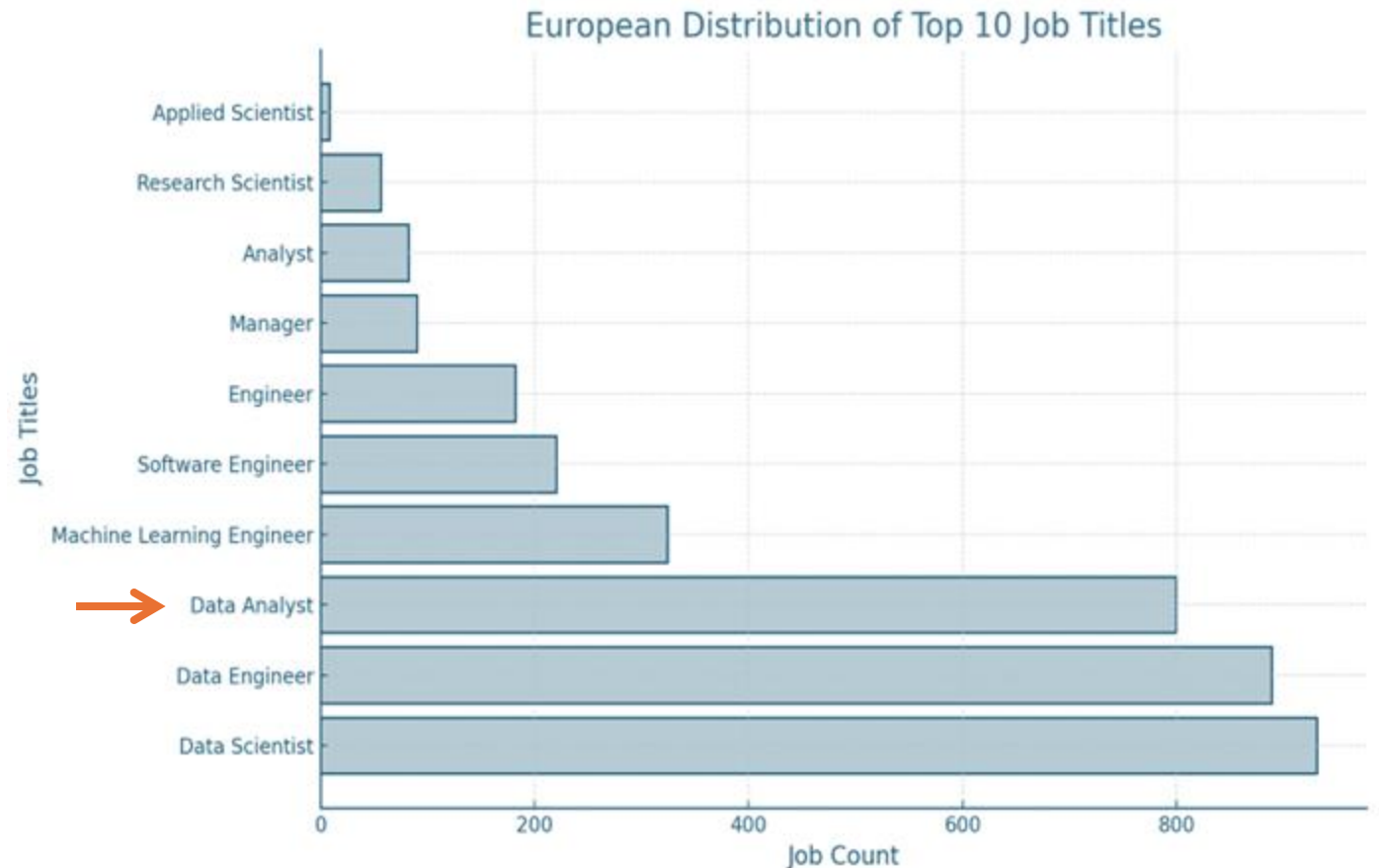
Top 10 Data jobs in Europe:

European Focus:

- Similar to worldwide trends, roles like **Data Engineer** and **Data Scientist** are highly prominent.

Regional Specialization:

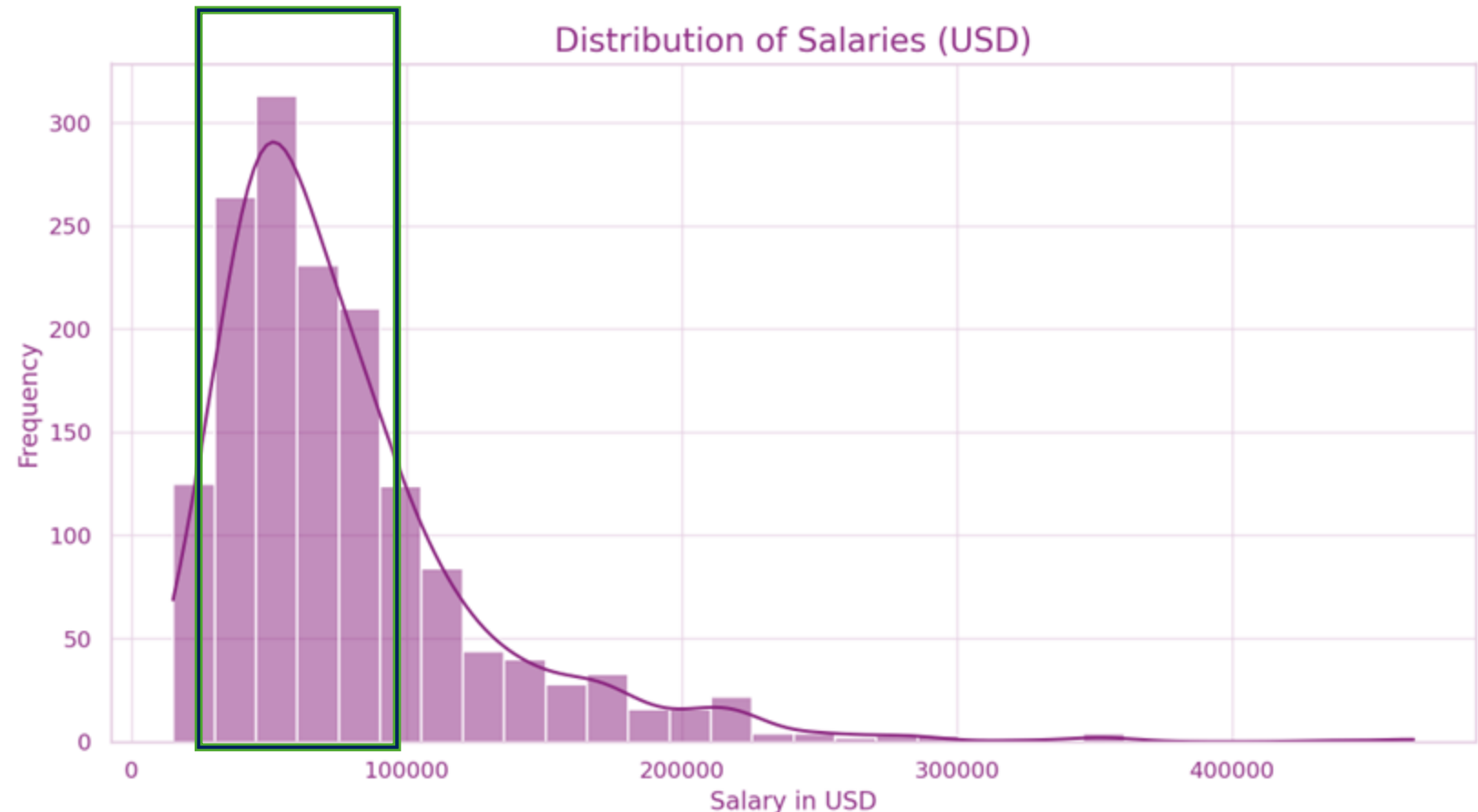
- **Data Analyst** shows relatively **higher ranking (Top3)** compared to worldwide analysis, indicating regional expertise or demand.



* Frequencies based on the used dataset.

Salary Distribution for Data professions in Europe:

European salaries concentrated within \$40,000 to \$100,000 USD.
(vs global salary range \$100,000 and \$200,000).

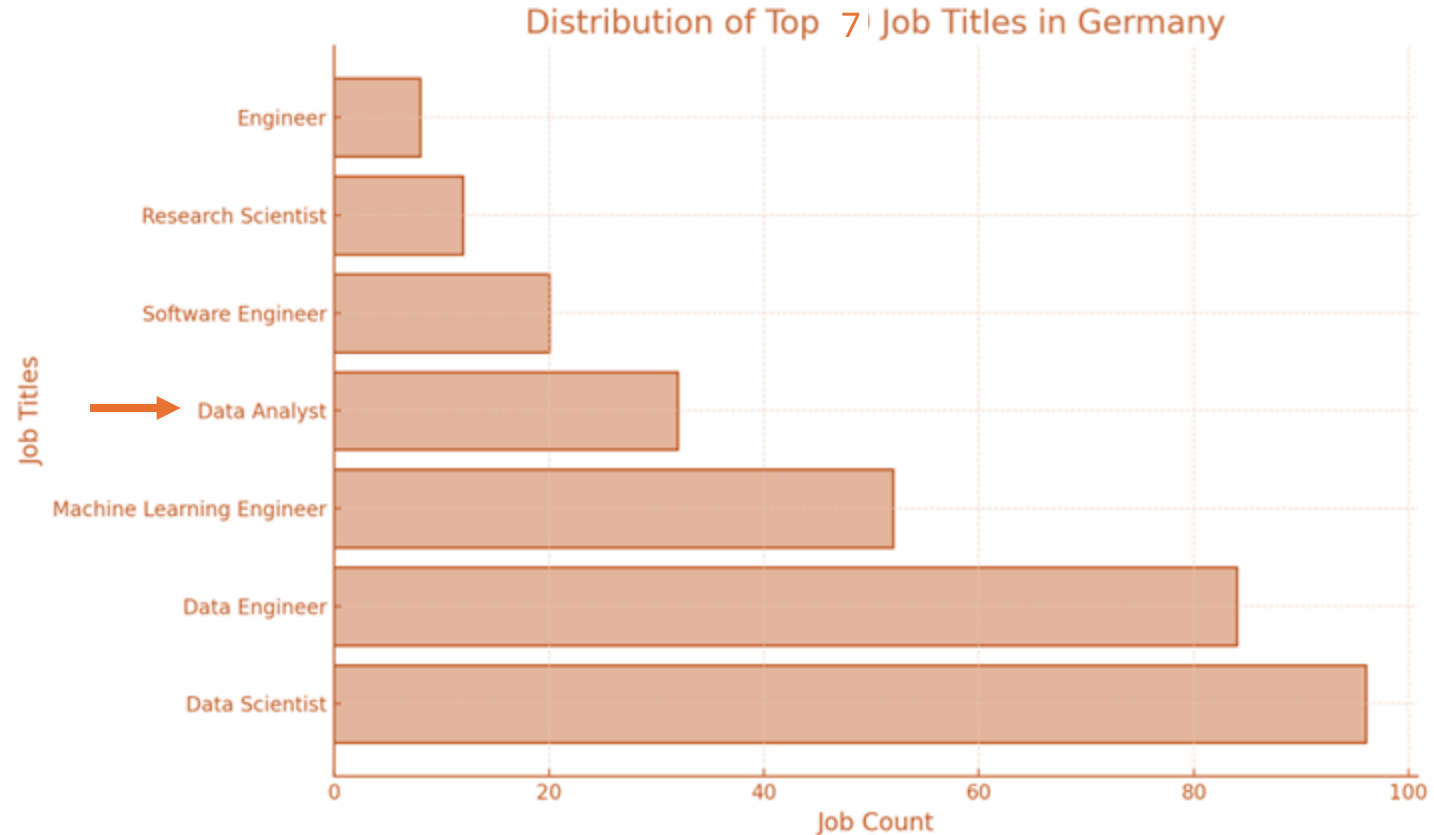


* Frequencies based on the used dataset.

Top 7 Jobs in Germany:

Niche Roles: Some job titles may have lower counts, indicating more specialized demand.

High-Demand Titles: The most common roles reflect Germany's industrial and technological strengths, such as **Software Engineer** or **Data Scientist**.



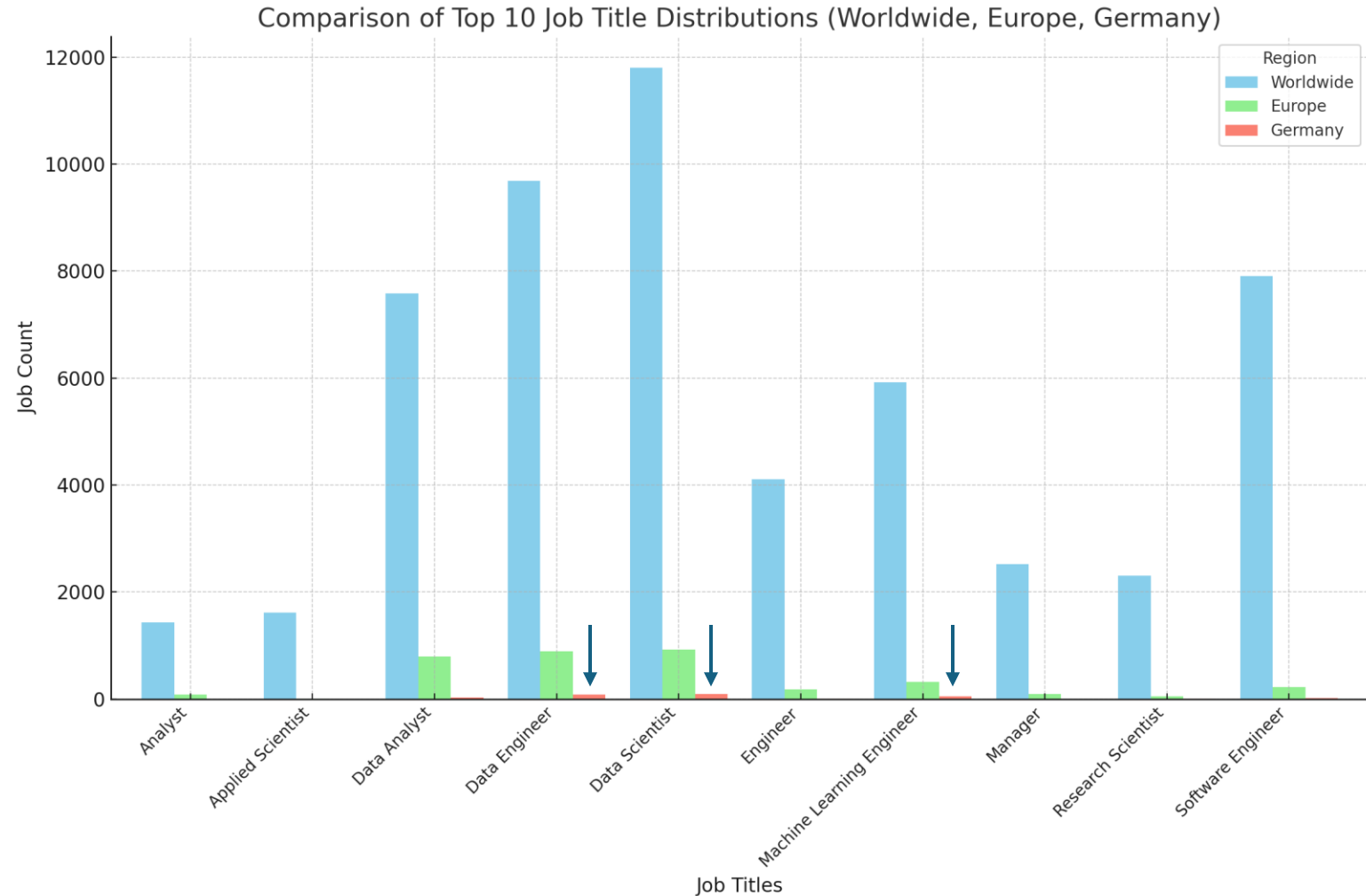
* Frequencies according to the used dataset.

Comparison Top Job Titles WW, Europe and Germany

- **Prominent** roles in Germany may indicate regional demand.

Example: **Data Engineer** might stand out in Germany due to industrial focus on data generation.

- **Underrepresented** roles may suggest opportunities for growth or skill gaps in the region.





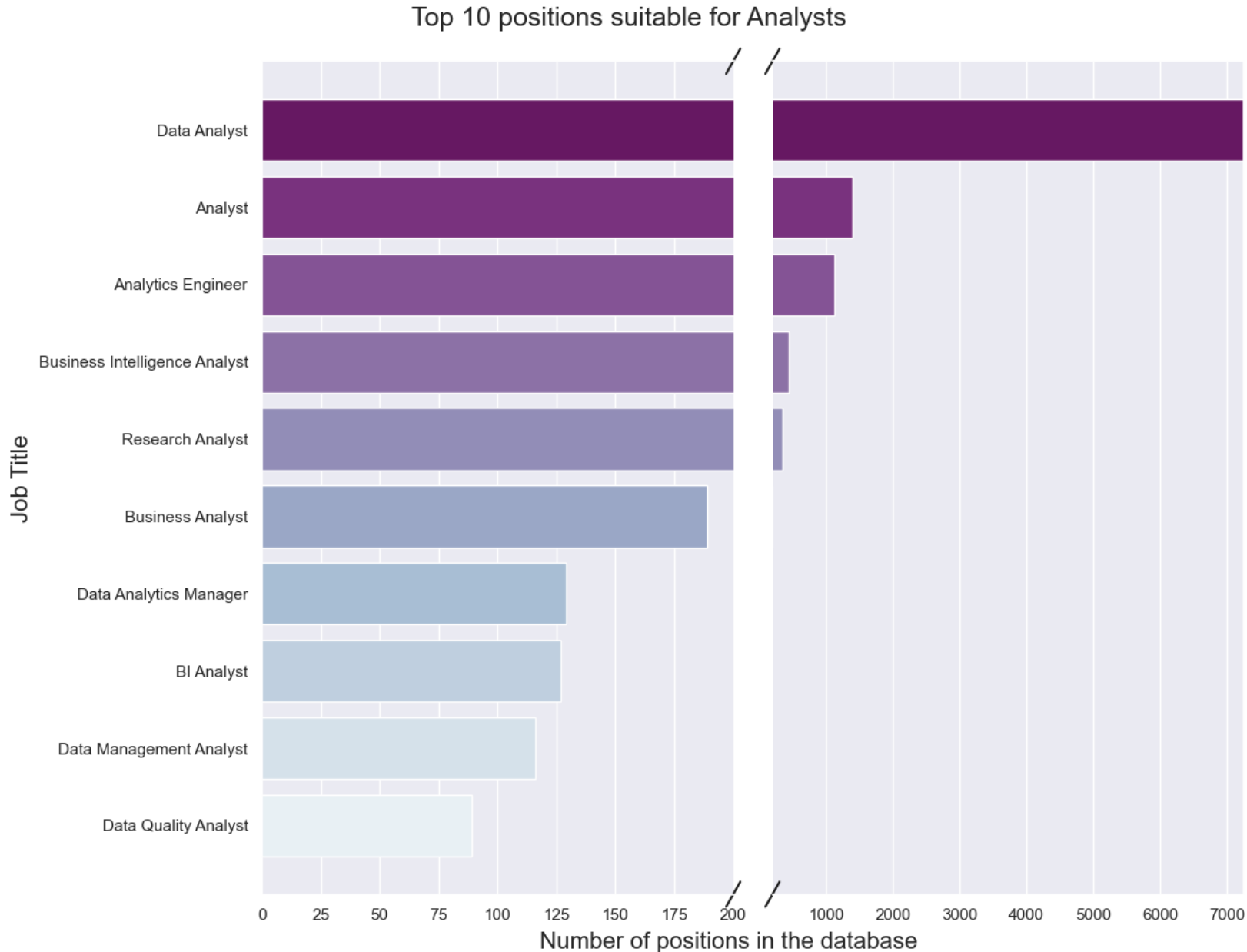
Analyst Perspective

Panorama for a career shift

Top 10 jobs for Analysts worldwide:

56 job related to data analysis were found worldwide in the data set.

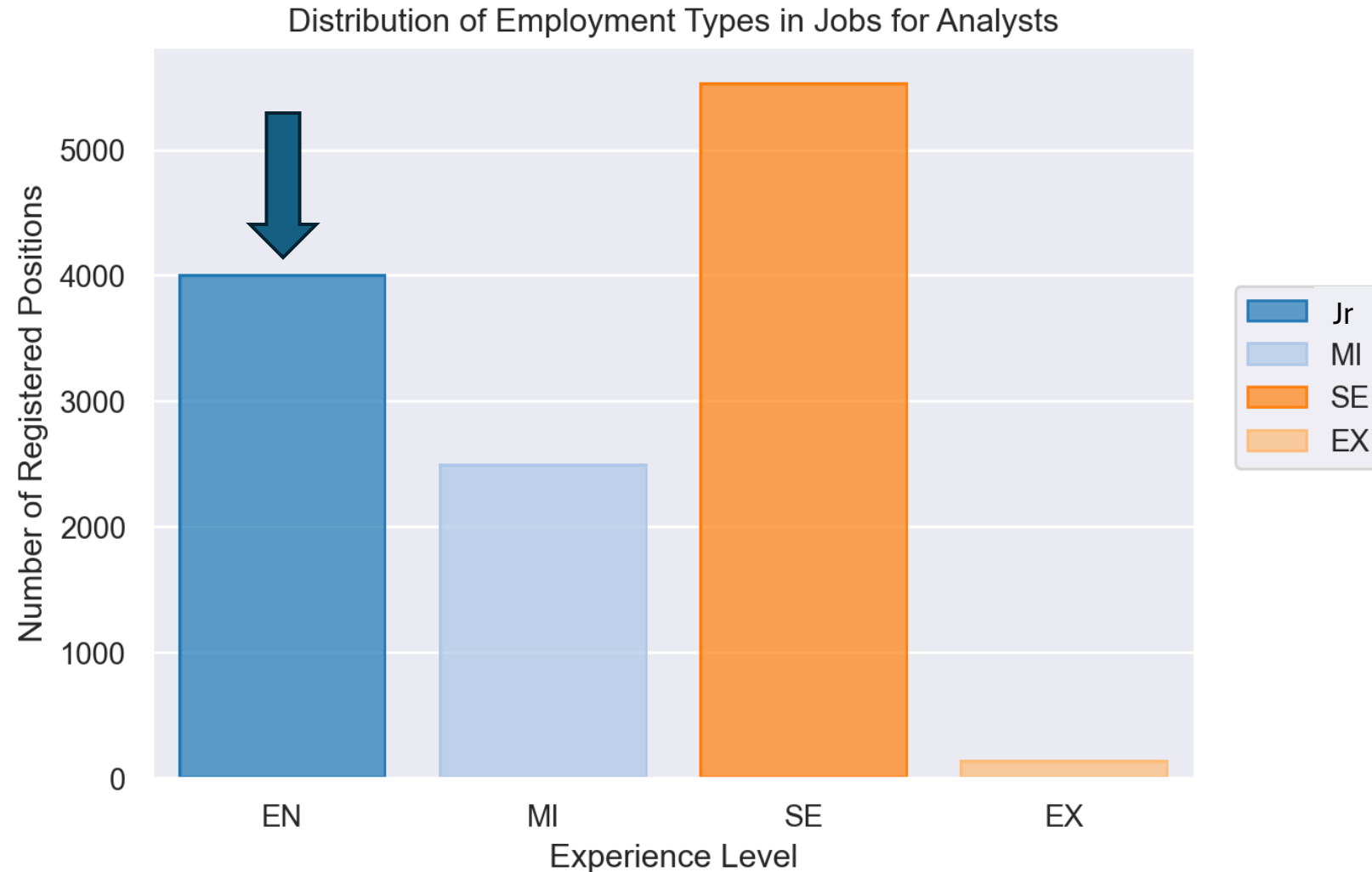
Data Analyst is the Top 1!



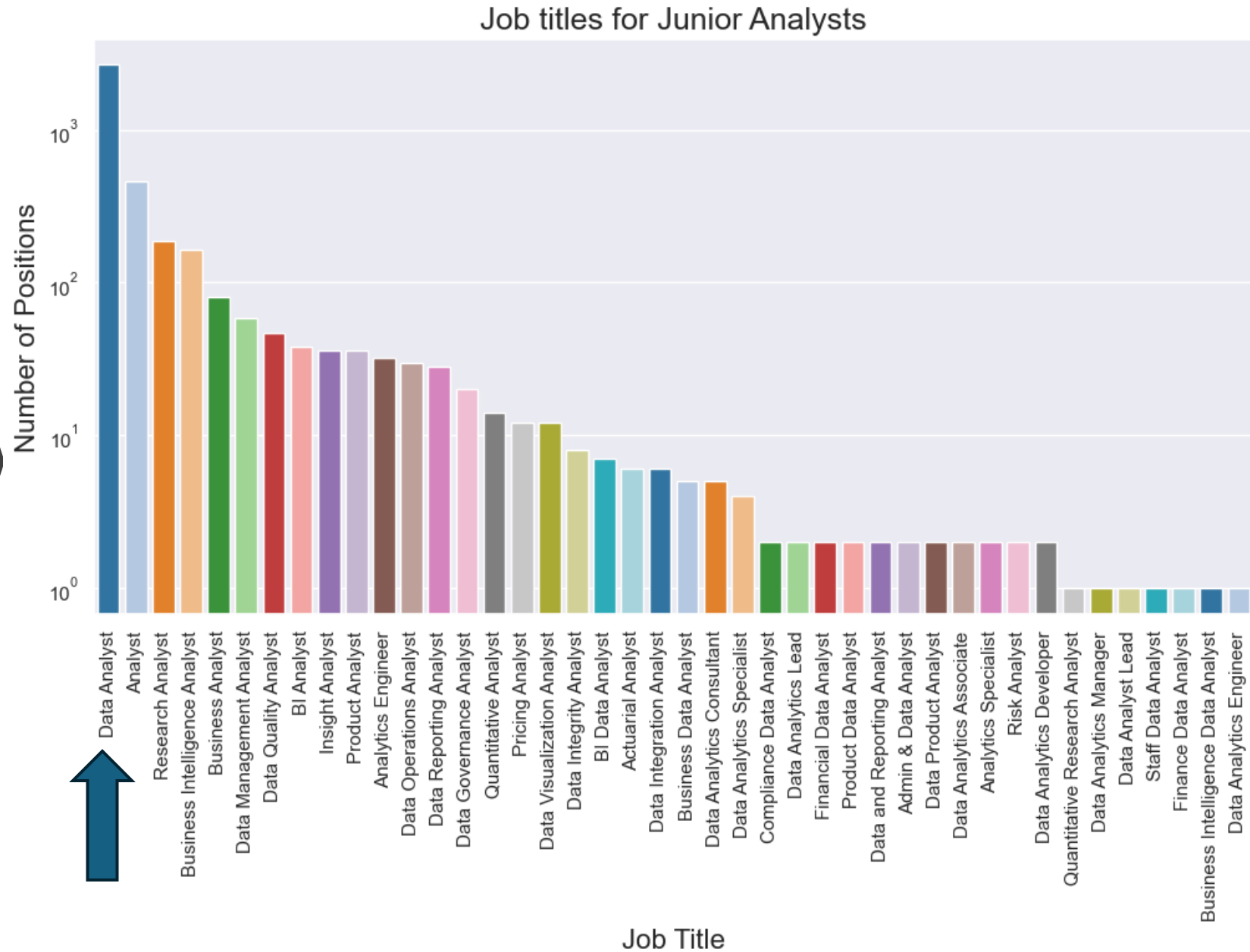
Experience level distribution in 56 job titles for Analysts:

Senior expertise (SE) dominates followed by the Entry level (EN).

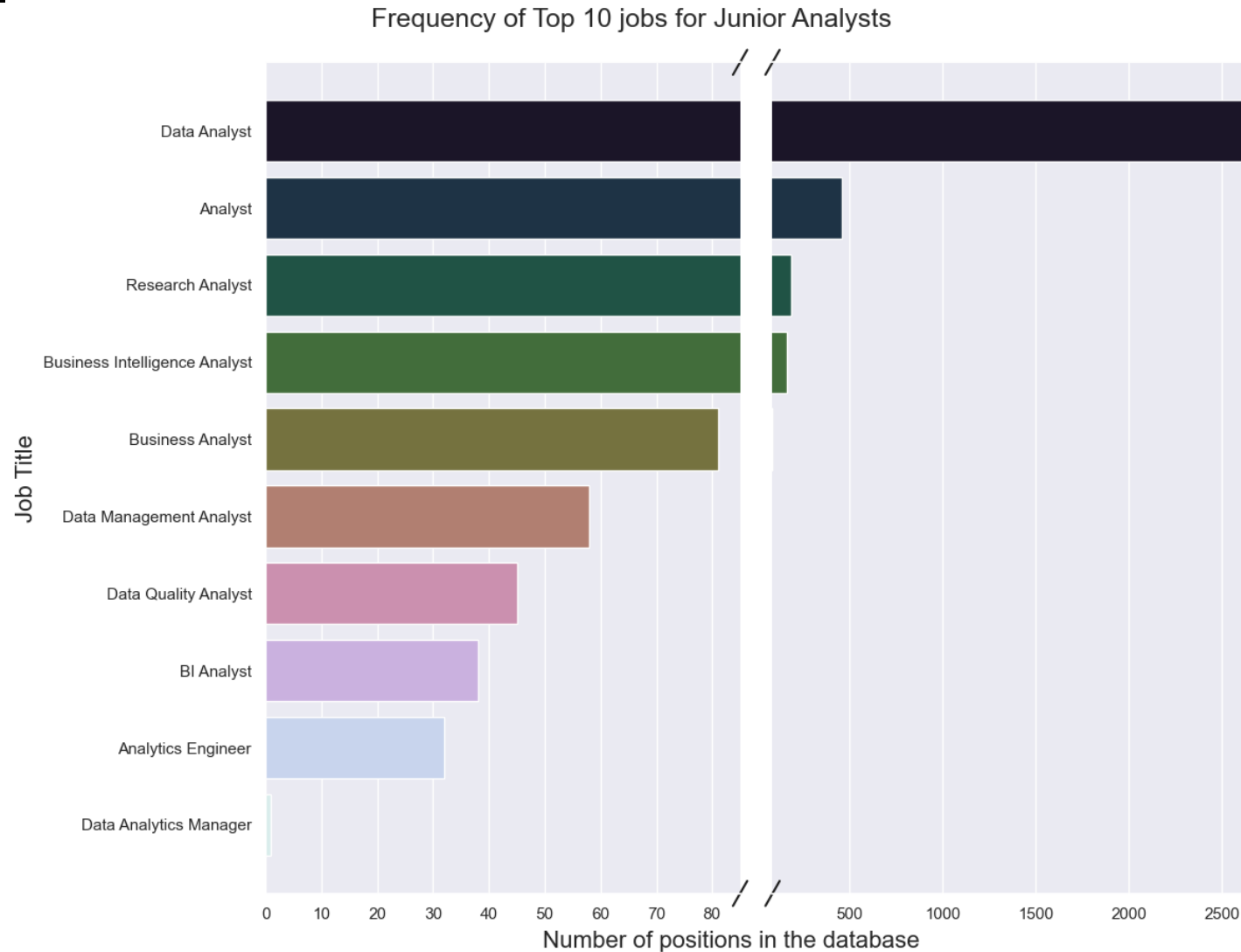
This could be encouraging to shift into DA!



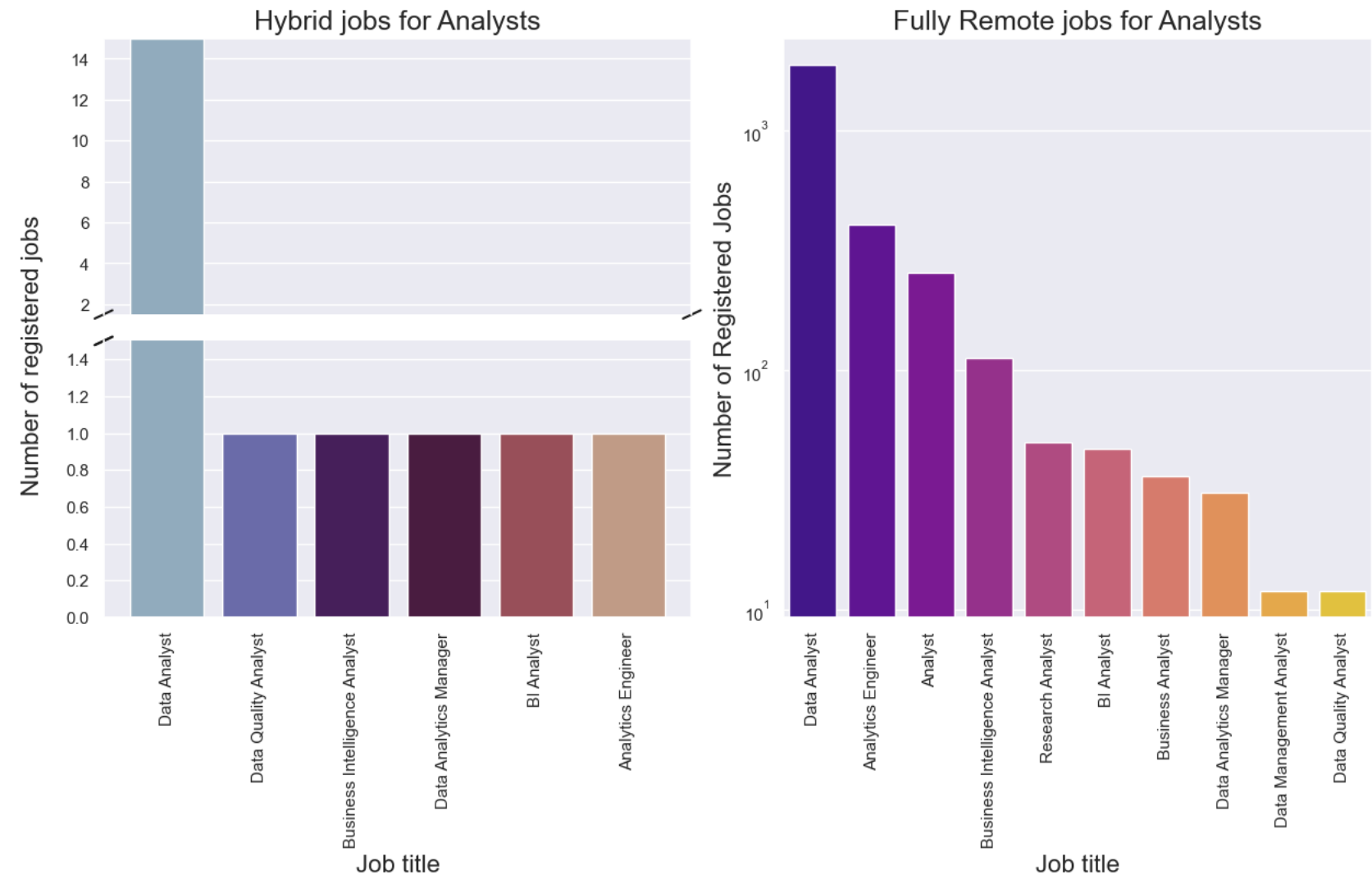
**Which jobs
are suited
for Jr level?
(42 titles)**



...and for the Top 10 jobs for Analysts?

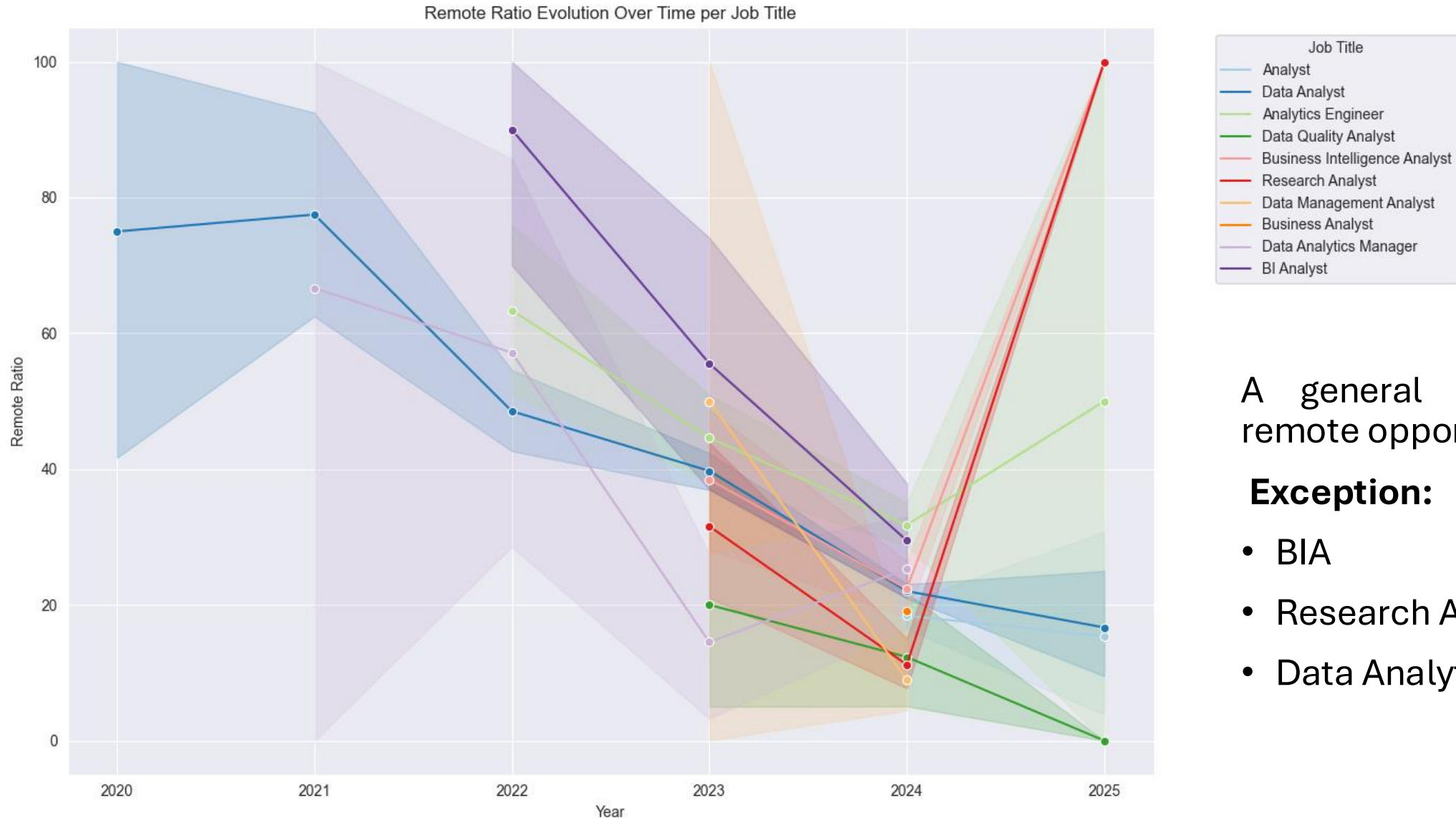


Remote opportunities in Top 10 jobs for Analysts:



Hybrid work is reported mainly for DA.

Time series of Top 10 jobs for Analysts:



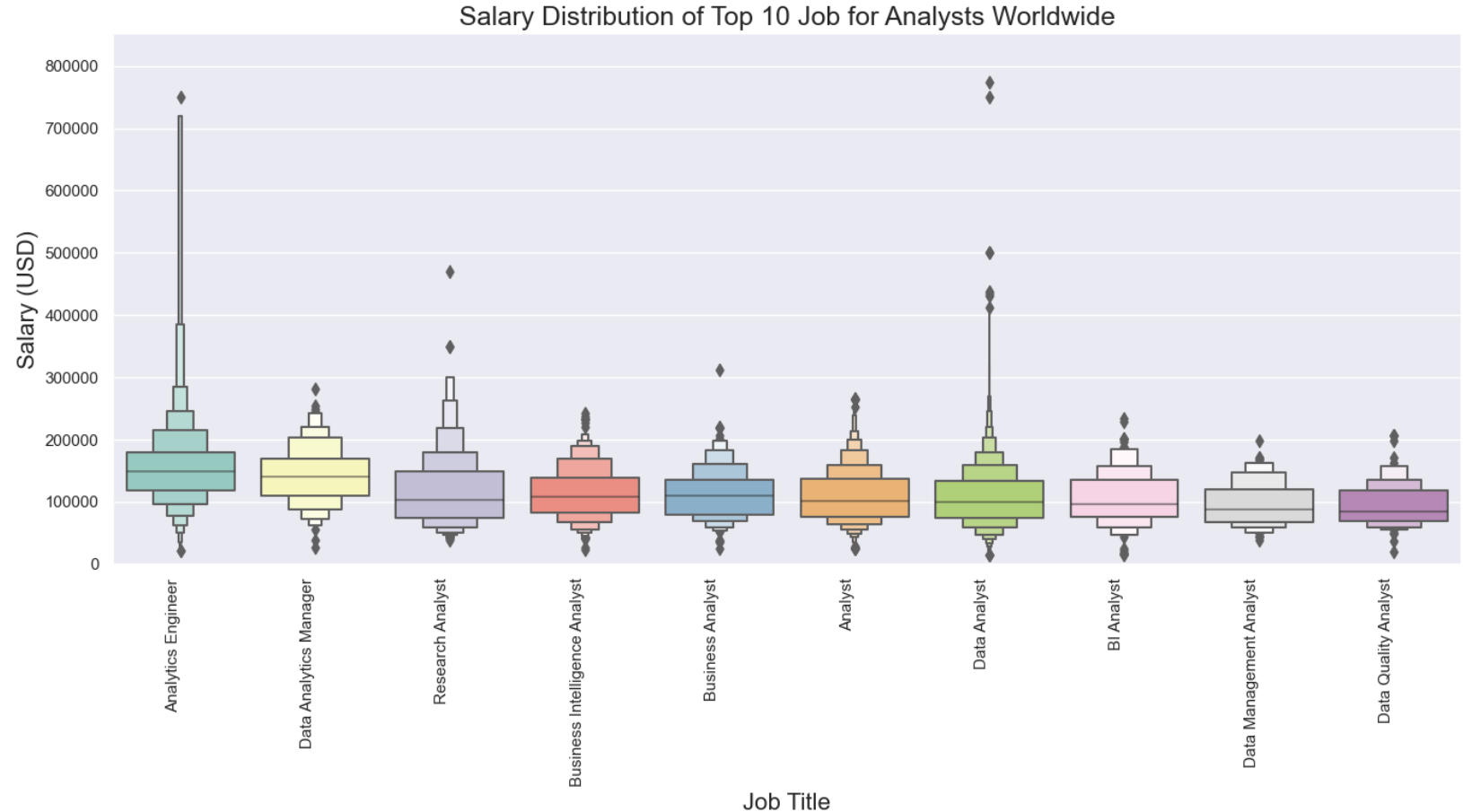
A general decrease of remote opportunities.

Exception:

- BIA
- Research Analyst
- Data Analytics Manager

Worldwide salary for Top 10 jobs for Analysts:

The mean salary (USD) for the top 10 jobs for analysts lies around 113K USD, while the **Data Analysts** earn in average 107K USD.



Recommendations to Jessica

Analysis of additional datasets are encouraged to compare trends.

According to the analyzed data:

- career shift opportunities are feasible for the Job title of Data Analyst,
- there may be opportunities for DA with Junior experience and mainly full-time mode,
- the mean salary worldwide for Data Analysts lies around 107K USD,
- relocation would not be necessary because Data Analyst positions showed hybrid and fully remote work.

Your questions are welcomed!



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