### DATA MARKET IN BARCELONA

IF YOU WANT TO BECOME A DATA ANALYST

# Agenda

- Tools
- The Method
- Global Analysis
  - Part I: Category, Modality & Seniority
  - Part II: Tools
  - Part III: Hard Skills & Soft Skills (Top 5)
- Analysis between Categories
  - Part I: Modality & Seniority
  - Part II: Programming Tools differences
  - Part III: Hard Skills differences
  - Part IIII: Soft Skills differences
- Recap...If you want to become a Data Analyst
- \*Bonus Track: Top companies in need of talent
- Next Steps

# Tools





# The Method







316 jobs scraped from last 2 months in Barcelona



- HTML
- BeautifulSoup (python)
- Selenium (python)

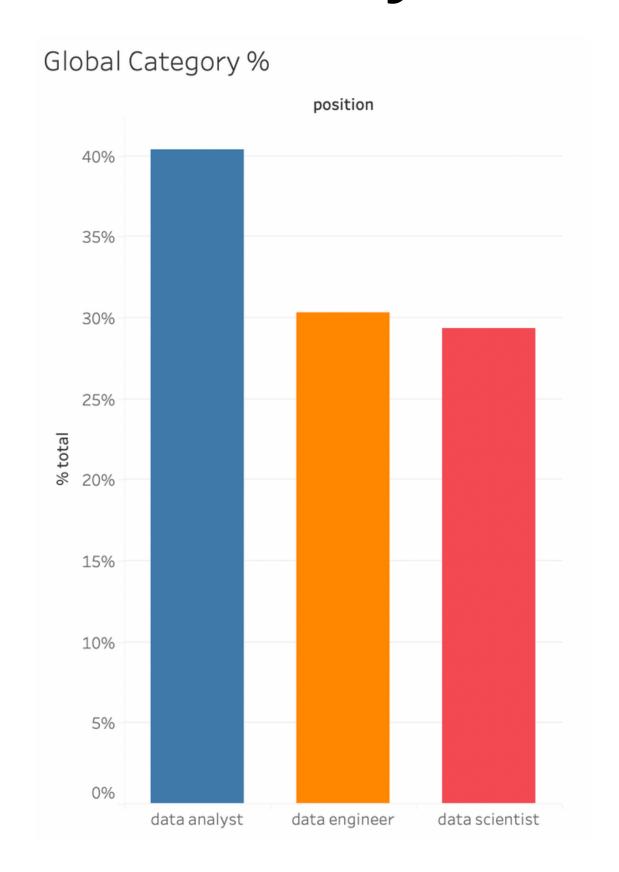


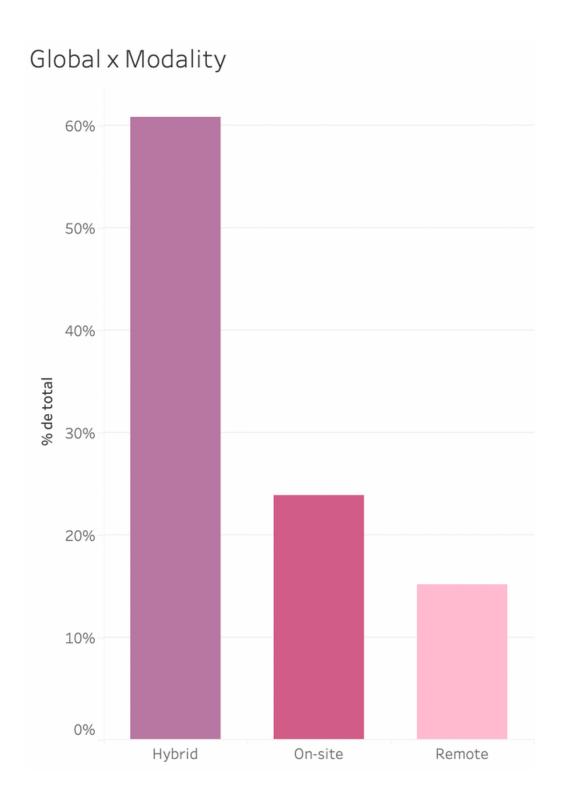
#### Structured data

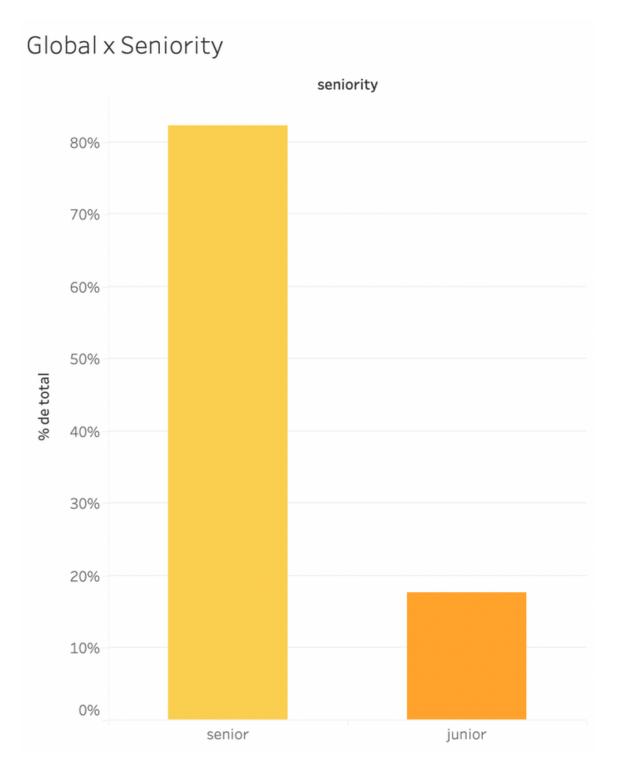
- Data Cleaning
  - Python
  - NLTK
- Extracted Data: Title,
  Company, Location,
  Modality & Description

# Global Analysis

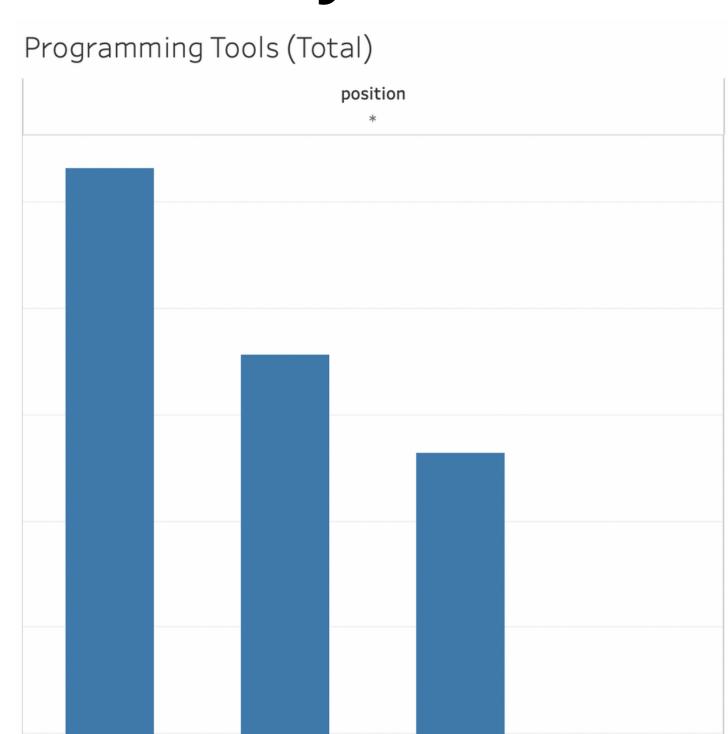
# Global Analysis (I)







# Global Analysis (II) - Tools

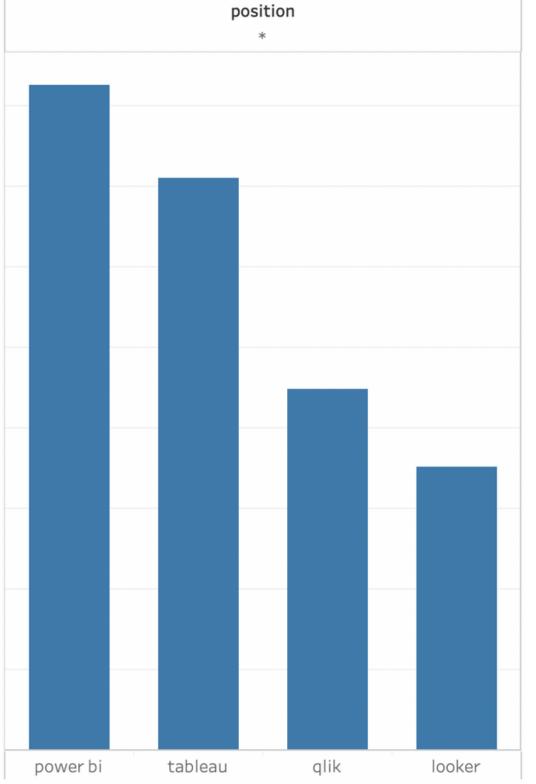


sql

python

matlab

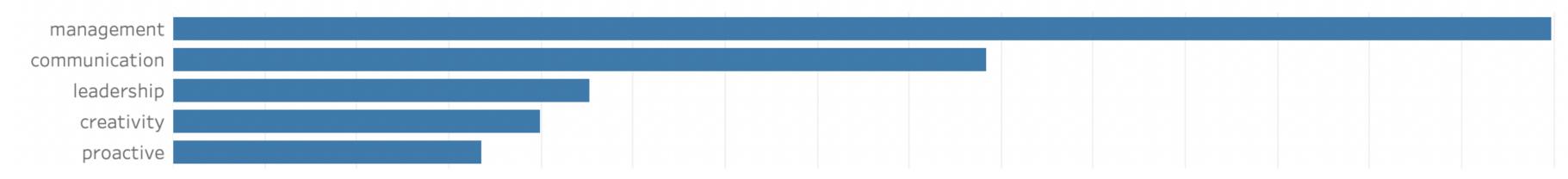




# Global Analysis (III) - Hard Skills & Soft Skills (Top 5)

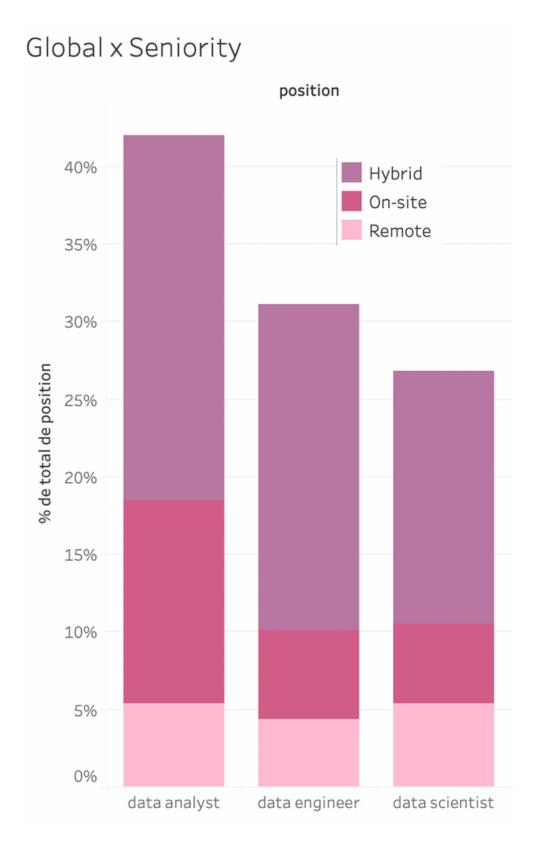


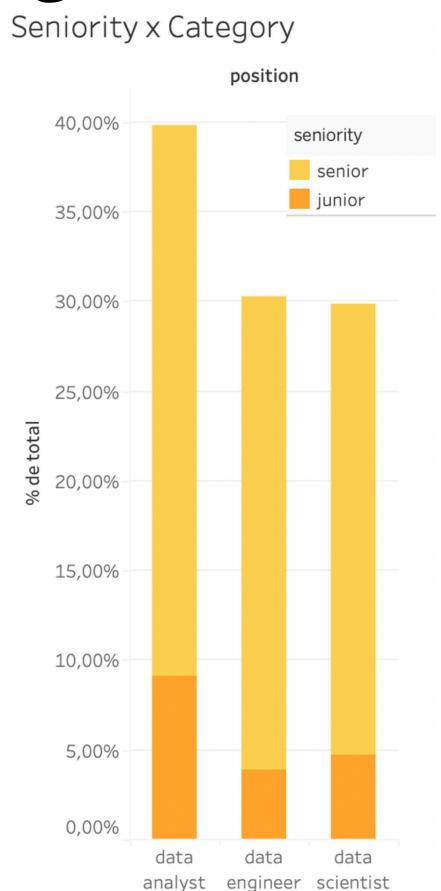




# Analysis between Categories

## Analysis between Categories (I)

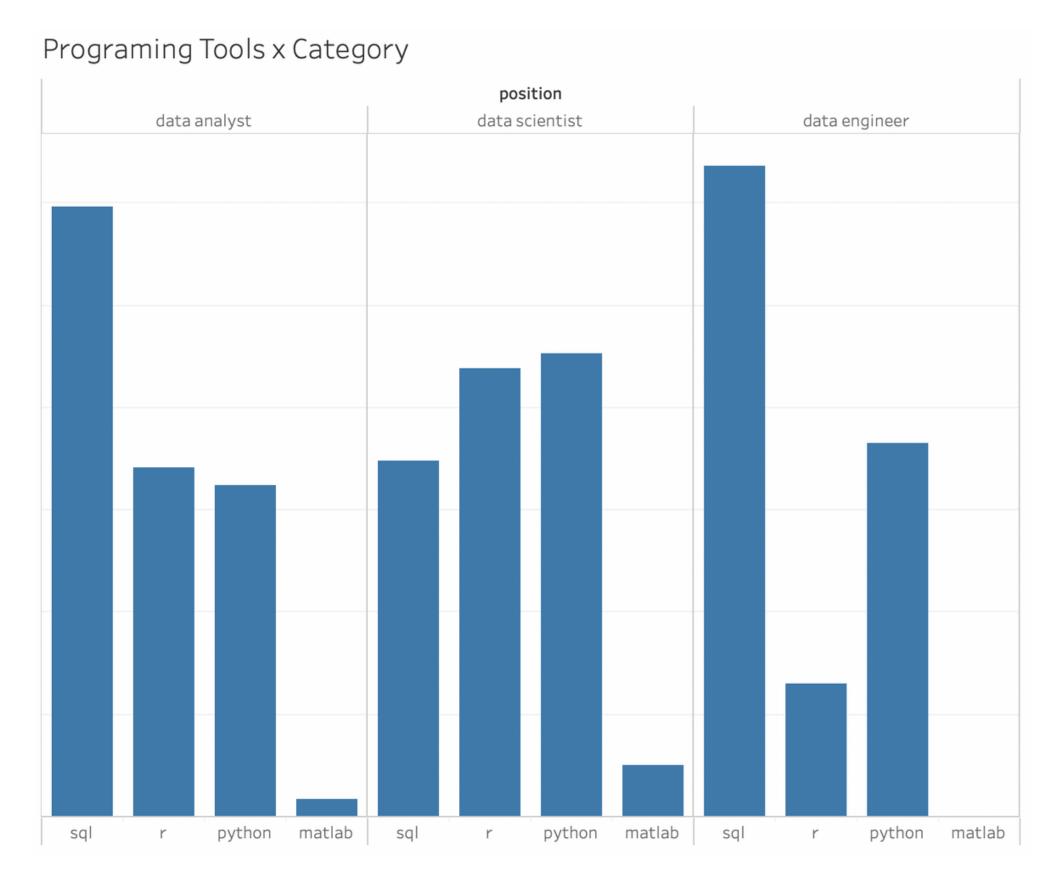




#### Insights:

- More On-site positions on DA jobs
- A bit more junior positions on DA jobs

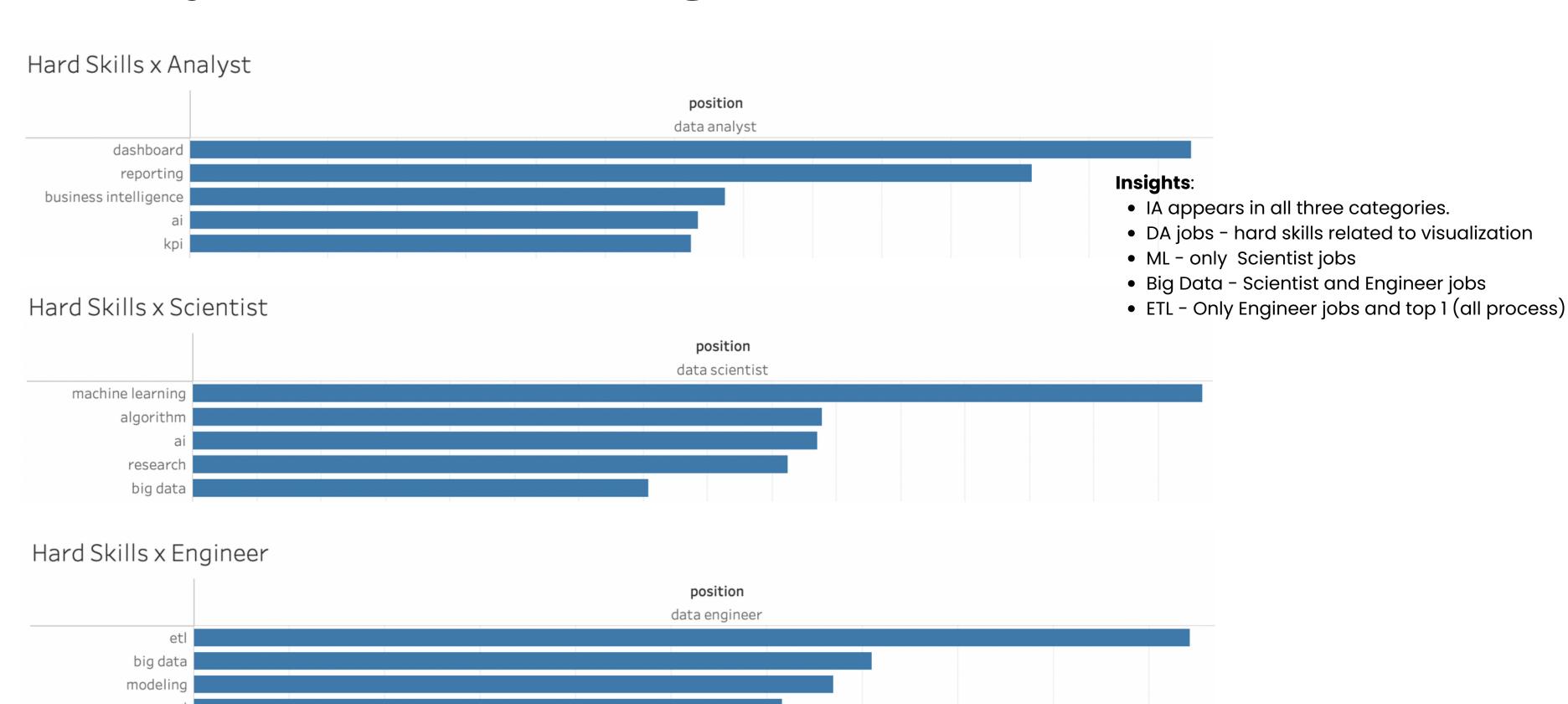
## Analysis between Categories (II) - Programming Tools



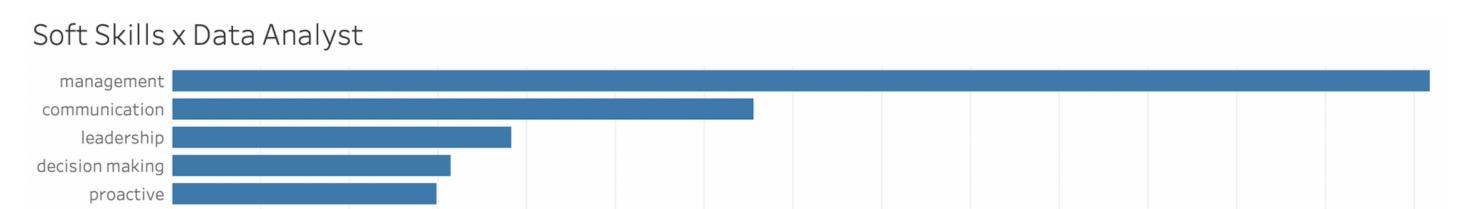
#### **Insights:.**

- DA and Engineer ask more SQL than python
- Scientist positions demand more python & r than SQL.
- DA and Scientist jobs r and python very close
- Engineer jobs Python > r

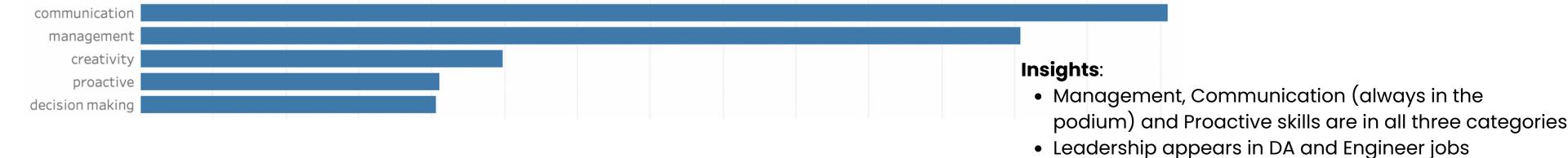
## Analysis between Categories (III) - Hard Skills



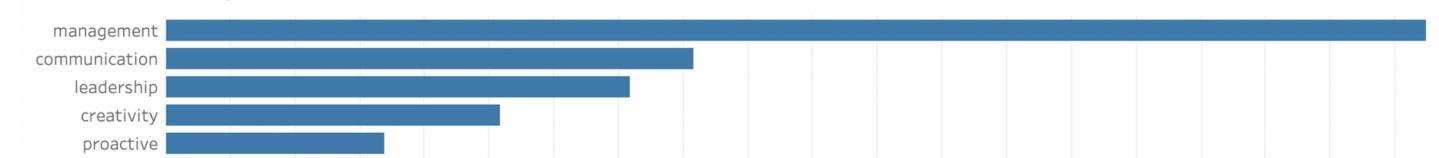
## Analysis between Categories (IIII) - Soft Skills







#### Soft Skills x Engineer

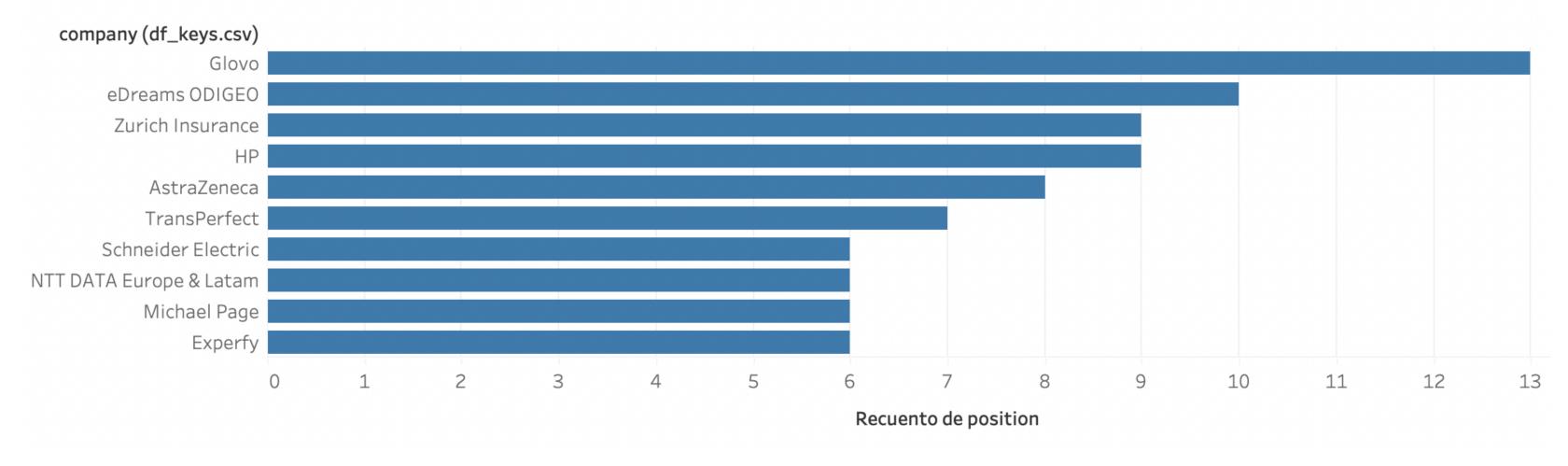


## Recap...If you want to become a Data Analyst

- Although the hybrid format predominates. It is the category with the most on-site positions.
  Maybe one of the reasons is that it is the category with more junior positions
- **SQL** is by far the **most demanded** programming tool. It is **followed**, of course, by **Python and r** (very close to each other)
- Power BI and Tableau are requested more or less equally
- Hard skills most in demand for Data Analyst jobs are closely related to visualization (Dashboard & Reporting)
- Most popular **Soft Skills** for a Data Analyst are Management, Communication, Leadership, Decision Making and Proactivity.
  - This is why it is so important that if in our background we have been in roles where we have enhanced these skills, we must make them shine in the selection process!!!!

## \*Bonus Track: Top companies in need of talent

Bonus Track: Top Companies



### **Next Steps**

- Use this project for other fields and locations.
- See differences over time
- Try to introduce the salary feature, as it could provide incredible insights.
- Use SQL to be able to have a model.

# THANK YOU!

