DATA MARKET IN BARCELONA

ANALYSIS OF DATA JOBS IN BARCELONA

Agenda

- Tools
- Method
- Global Analysis:
 - Category, Modality & Seniority
 - Modality x Categories
 - Seniority x Categories
- Keyword Analysis
 - Programming Tools Analysis
 - Visualization tools x Category
 - Hard Skills x Categories
 - Soft Skills x Categories
- Recap...If you want to become a Data Analyst
- *Bonus Track: Top companies in need of talent
- Next Steps

Tools used:





Method



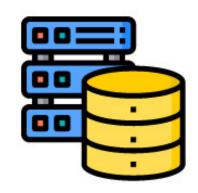




318 jobs scraped from last 2 months in Barcelona



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

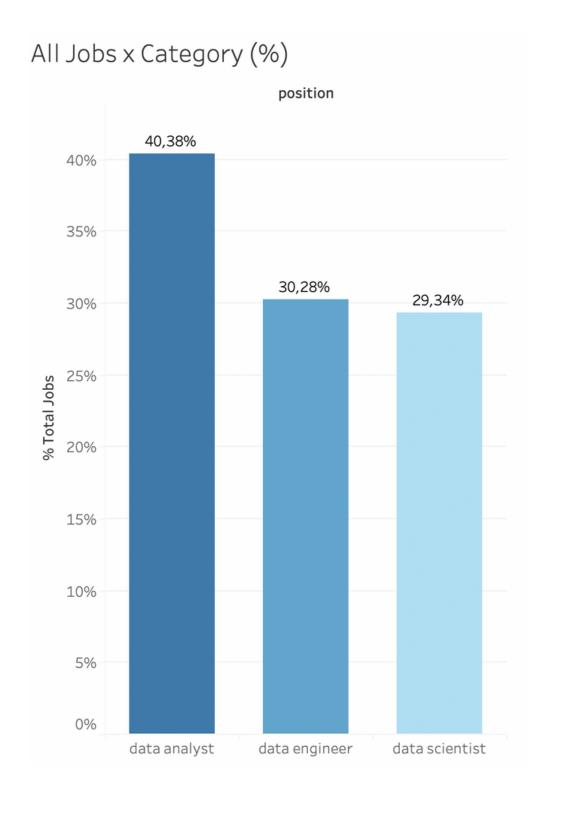


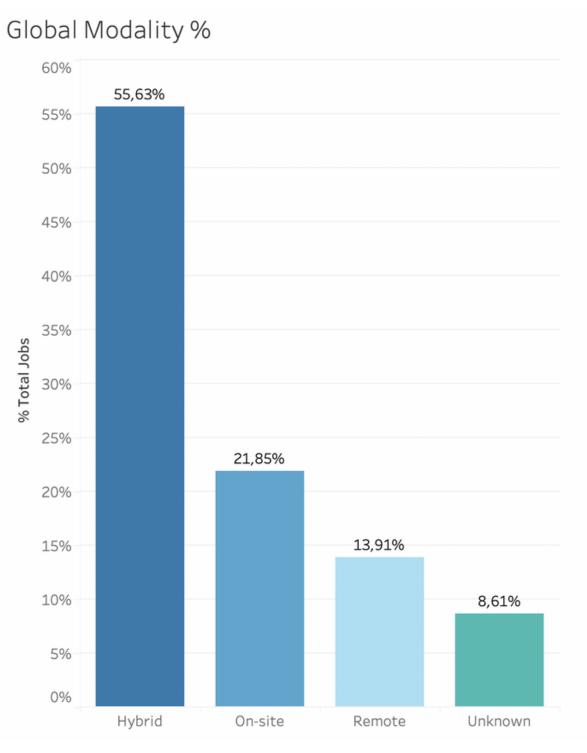
Structured data

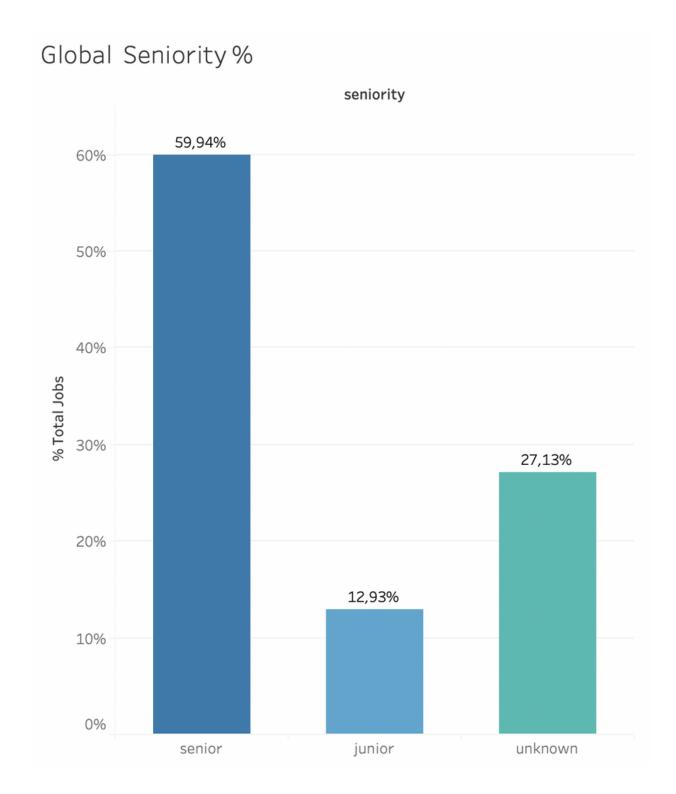
- Extracted Data: "Title",
 "Company", "Location",
 "Modality" & "Description"
- Data Cleaning
 - Python
 - NLTK

Global Analysis

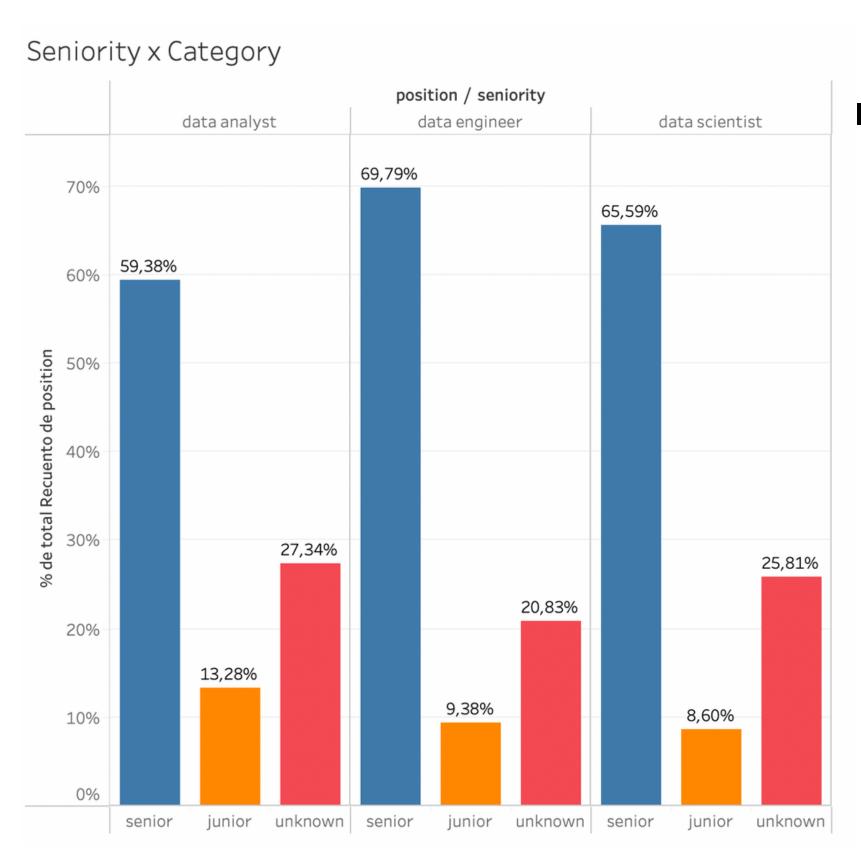
Global Analysis - Category, Modality & Seniority







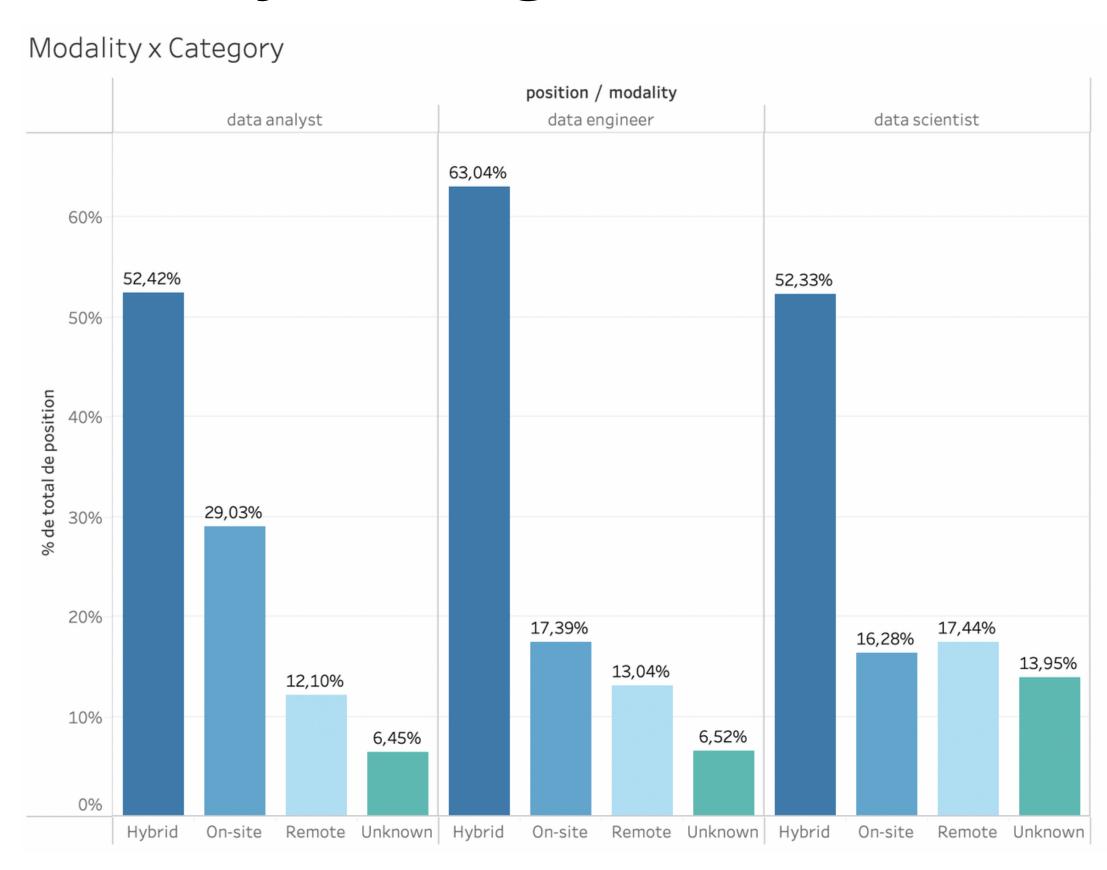
Seniority x Categories



Insights:

- Much more senior positions. Better defined? more standardized?
- A lot of unknown positions per category. Nonstandardized? Open to all experiences?
- Data Analysts with more junior positions. Possible reason why there are more on site positions in this category.

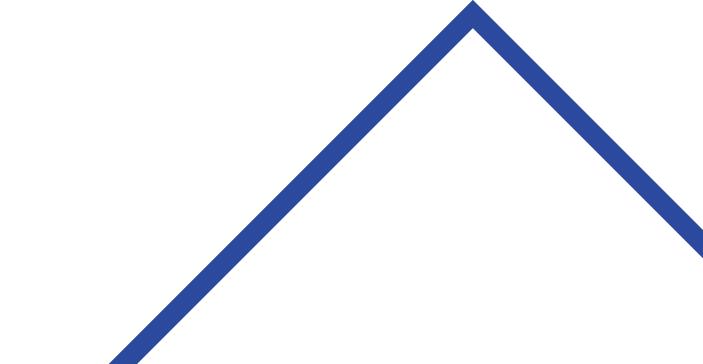
Modality x Categories



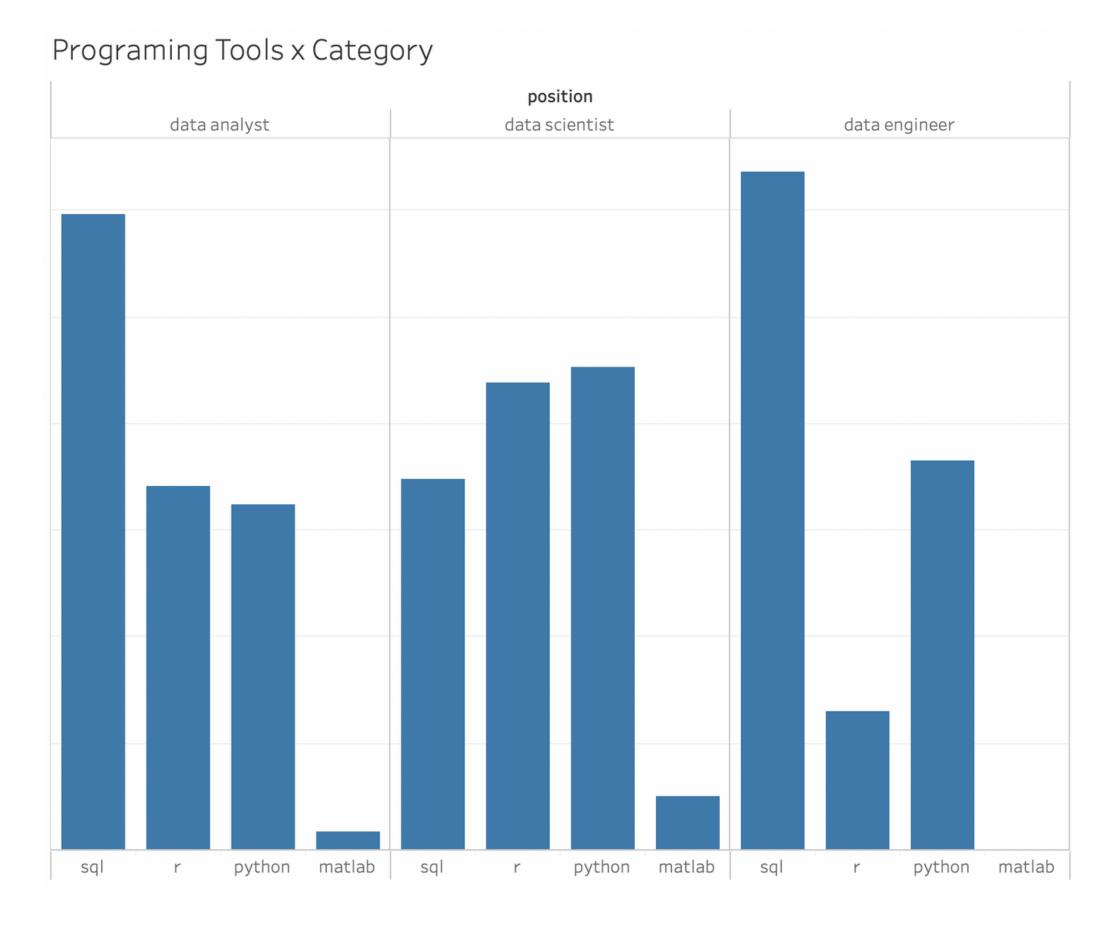
Insights:

- Hybrid positions are the most common by far.
- Much more on-site positions on Data Analyst jobs. Because more junior positions?
- Data Science is the only category that has more remote jobs vs on-site jobs

Keywords Analysis



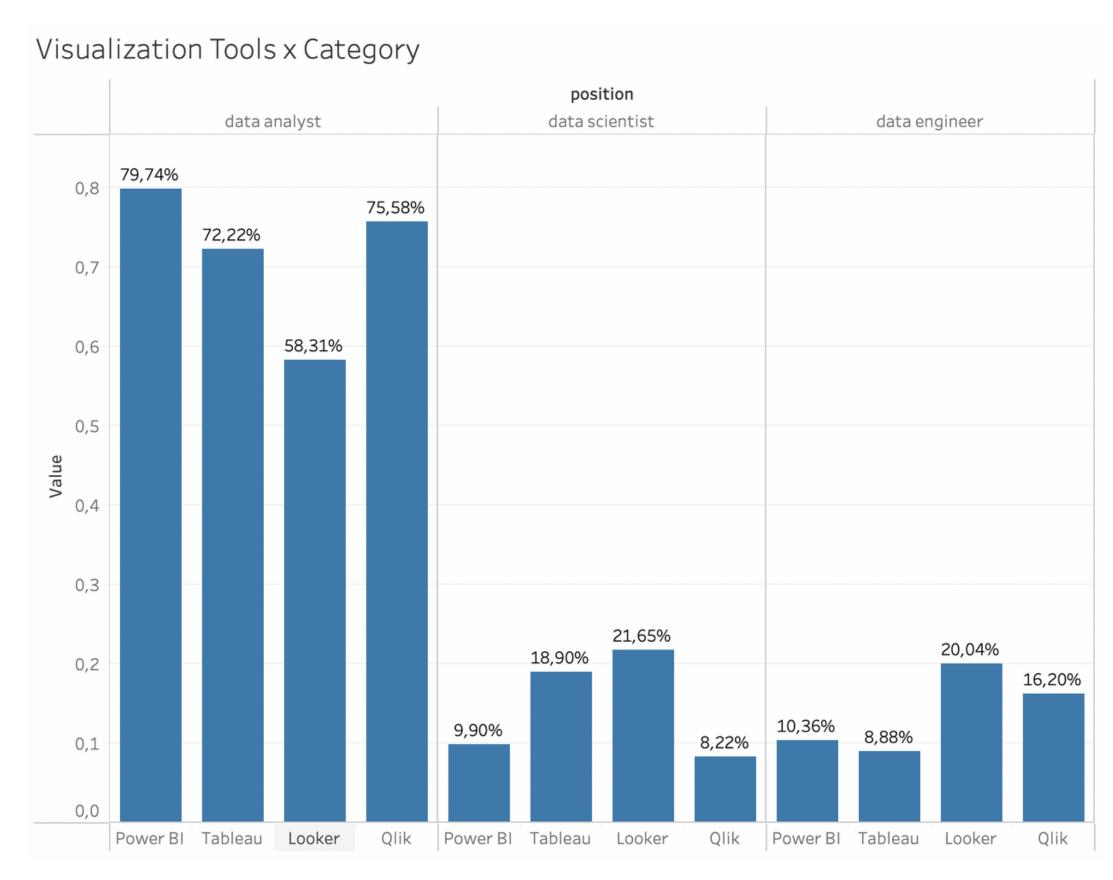
Categories x Programming Tools



Insights:

- SQL is by far the most requested tool for DAs and Engineers.
- Scientist positions is the only one that demands more python and r than SQL.
- Python and r are demanded more or less equal, except in the Engineer jobs.

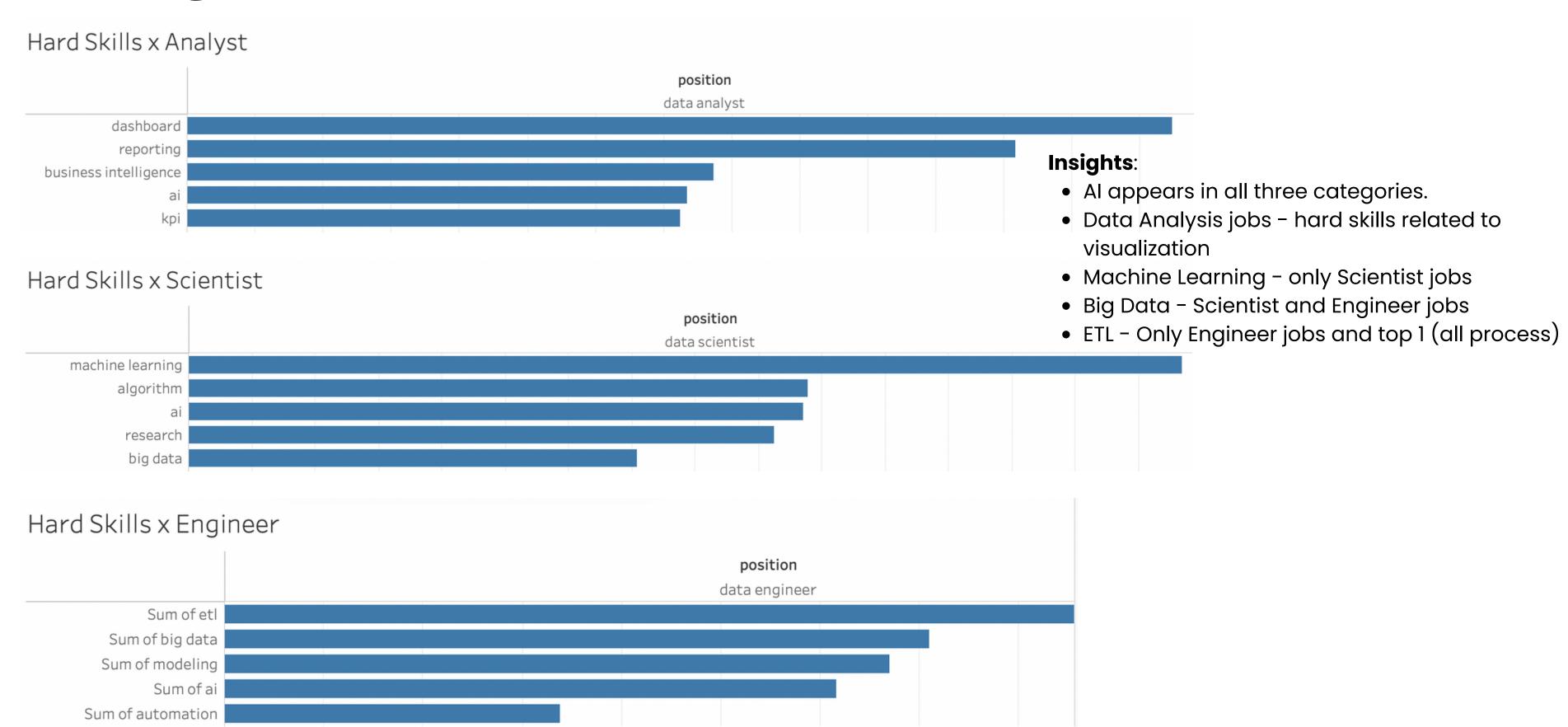
Categories x Visualization Tools



Insights:.

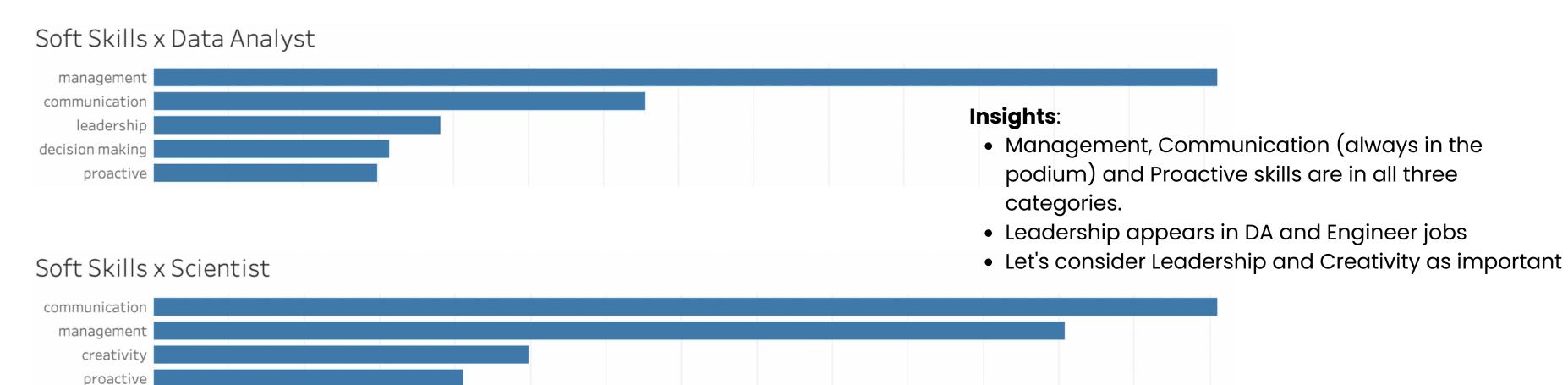
- More visualization in Data Analyst jobs (by far)
- All visualization tools are required at the same level. Looker and Qlik are already beginning to play an important role.
- Scientist and Engineer re positions where almost no visualization tools are required.

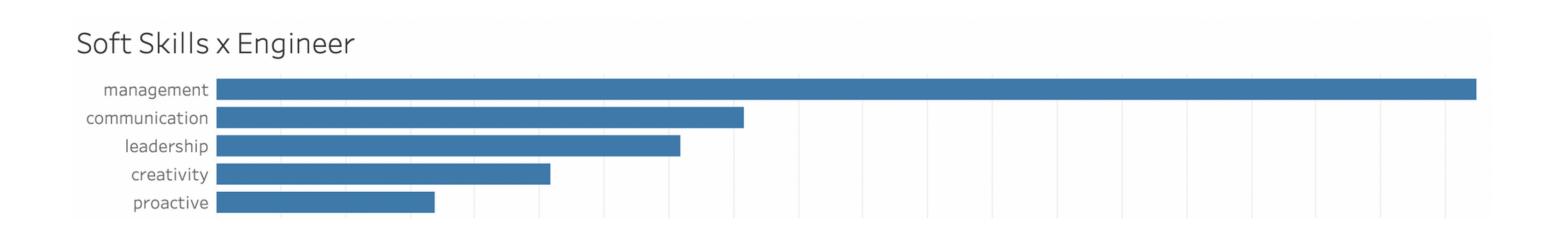
Categories x Hard Skills



Categories x Soft Skills

decision making



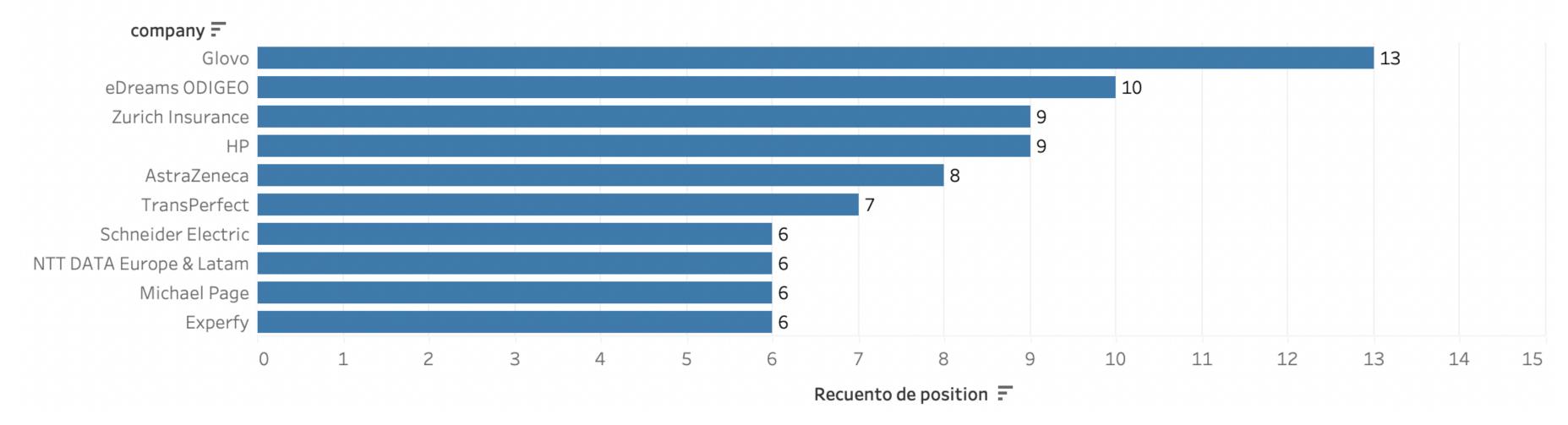


Recap...If you want to become a Data Analyst

- 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).
- Visualization tools are required in at least 80% of the Data Analyst positions. All equally requested.
- Hard skills most in demand for Data Analyst jobs are closely related to visualization (Dashboard & Reporting). Related to the fact that in DA positions, visualization skills are in high demand.
- 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





Next Steps

- Add more categories (Business Analyst, Machine Learning, etc)
- Use this project for other fields and locations. This project is a tool!
- See differences over time \(\mathbb{Z} \)
- Try to introduce the salary feature, as it could provide incredible insights
- Use SQL to be able to have a model

Thank you!

"Torture the data, and it will confess to anything."

— Ronald Coase