

# 5 Things You Need to Know Before

## Applying for Data Roles

Knowing the ins and outs of the coding world is a must have for successful data professionals.

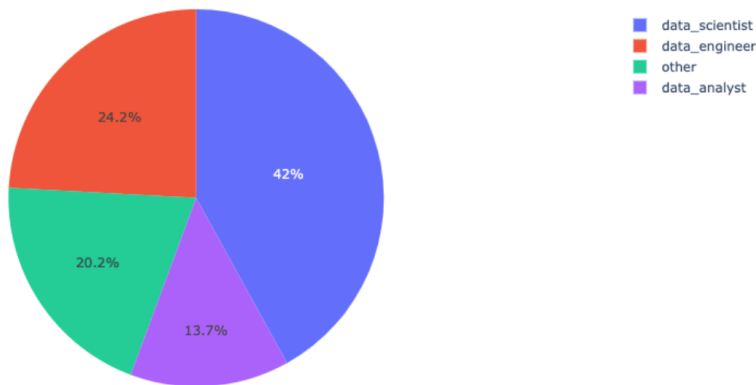
**What other skills are usually overlooked, but still key for these roles?**

**And which industries are on top of the demand chain?**

We got your back! US market analysis of close to 7,000 data jobs reveals us some insights that every data enthusiast should know before kicking-off their job search.

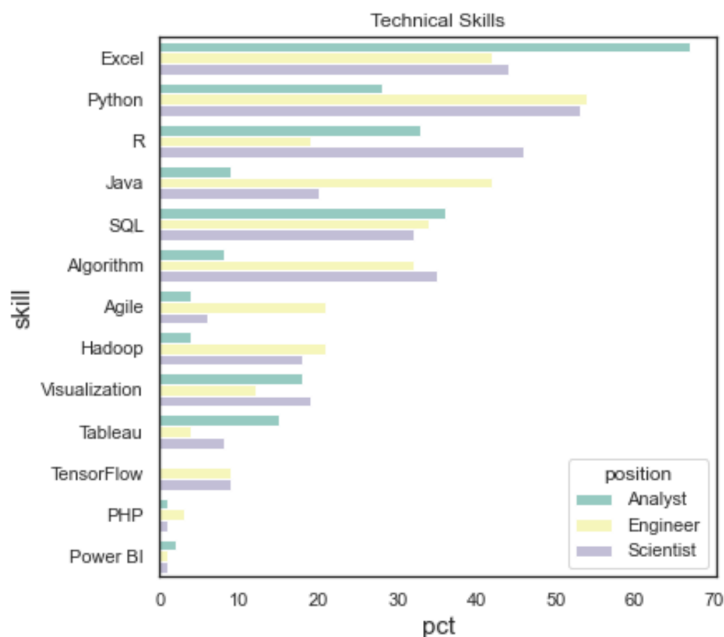
### 1. Scientists rule the US Job Market

Based on the data collected from indeed.com on the US job market in the field of data- 42% of all companies are looking for data scientists. Interestingly, data analysts were not in high demand with only 13.7% of all job ads. Don't be discouraged though- the market is h-o-t for all data people!



### 2. Excel and Python are the kings.

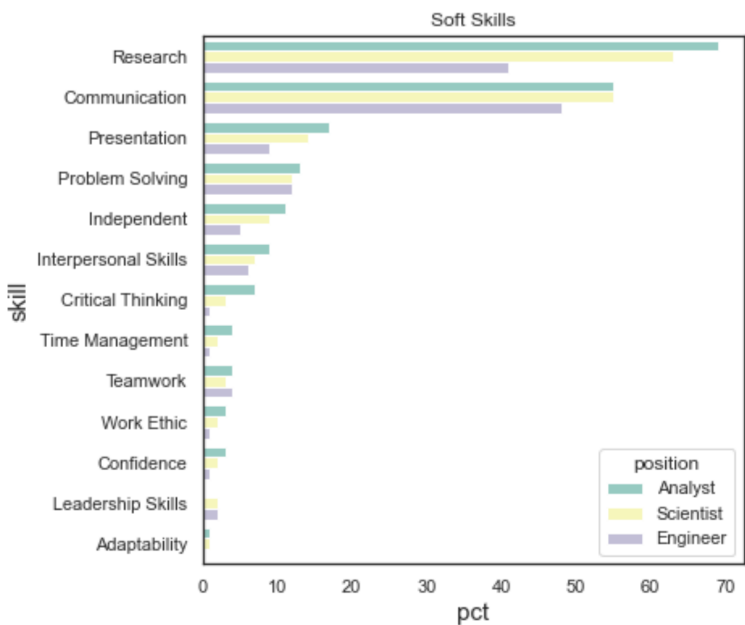
Wait, we thought no one was using Excel anymore? Well, that's not true. Excel continues to be on top of lists for technical skills, as Python is the most demanded language for data scientists and engineers.



### 3. Focus on pitching your soft skills.

You need to be able to do much more than just using a programming language, and key soft skills are in need: research, communication and presentation skills. Don't forget to mention them on your CV!

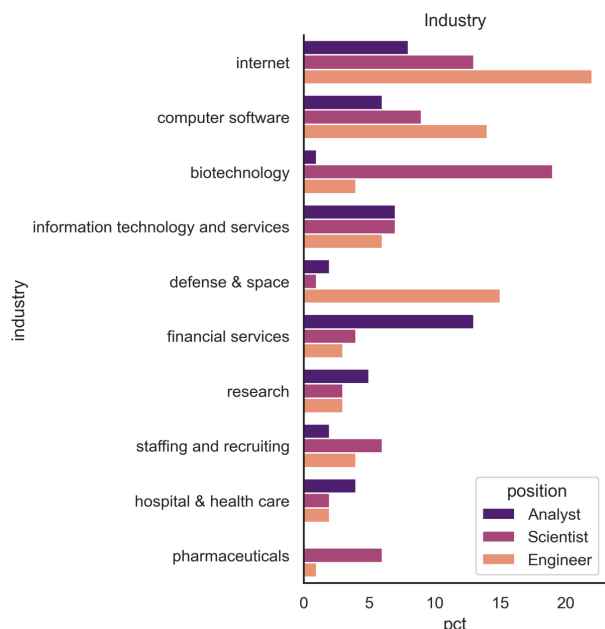
Also, surprisingly, although most data roles work in a team- team-related skills were not present in many job ads.



### 4. Start your search with the e-commerce industry.

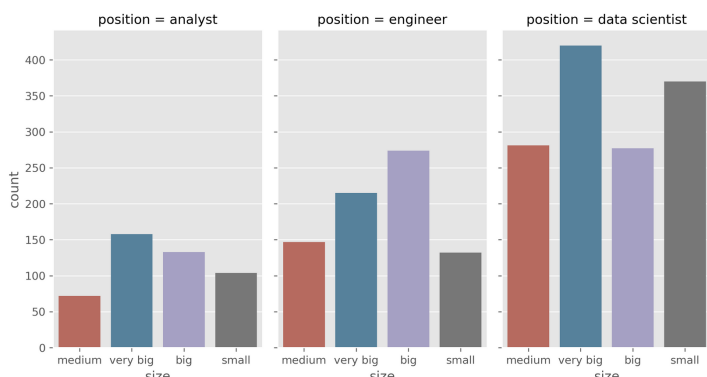
The internet industry is a great starting spot despite the data role you have chosen. On top of this:

- Scientists should also include companies focusing on biotechnology in their search.
- Analysts are most needed in the Financial Services.
- Engineers are on top of mind for the defense & space industry.



### 5. Size sometimes matters!

Data Scientists are needed everywhere, no matter the weather. Corporates are more interested in data engineers (big and very big companies, more than 5-10k employees) as we can note similar trends for analysts. Start your search with corporates, but do consider the differences and if this is what you want.



# Methodology

For this analysis two datasets have been used: kaggle US market data ([here](#)) and open company dataset of over 7 million corporations ([here](#)). All null values have been removed. The skills analysis have been done on a dataset of 6953 jobs (after removing any null values), as the industry and size analysis have been conducted on 3977 data points.

The category 'others' have been omitted for all other graph apart from the first bar chart (% of roles in the dataset), as the analysis focused on the needs for three specific roles: data analyst, data engineer and data scientist.

The target audience of this infographic is data job seekers.

## Data limitations

- both files were very heavy to process (e.g. description field; 7 million rows in the second file)
- not all columns were useful (e.g. the column 'reviews' from the dataset was removed for the purposes of this analysis.)
- after merging the two datasets, we lost 40% of our data. Still, we thought the insights are interesting.
- lack of time for further in-depth analysis (e.g. text analysis on 'description' field).
- industry chart: the team wanted to illustrate the outcome as %s to reduce biased data, however, it could not have been performed on time (with limited knowledge available).

## Glossary

- **small:** up to 1k employees
- **medium:** up to 5k employees
- **big:** 5k-10k employees
- **very big:** more than 10k employees

