

Seek Data Analyst Job Duties Analysis

Abstract

The purpose of the report is to identify the key skills required to become a data analyst, based on job requirements posted by the employers.

- data source: Seek
- Analytical Tools: Python, SQL, Power BI

In summary, data analyst is a job which requires multiple types of skills. From a technical aspect, the most important tools to be mastered are SQL, Excel, and Python. From an analytical perspective, data reporting and modelling skills are commonly desired. Besides these, a good communication skill is also strongly desired by many employers.

Word Cloud

After analysing all the current data analyst jobs posted on Seek, a data analyst word cloud could be created as below.



As can be shown above, we can identify some big words including "SQL", "Reporting", "Communication", "BI" etc. These words are mostly mentioned in the data analytical job duties.

After looking into these words, we can categorise these words into three different type of requirements to become a data analyst.

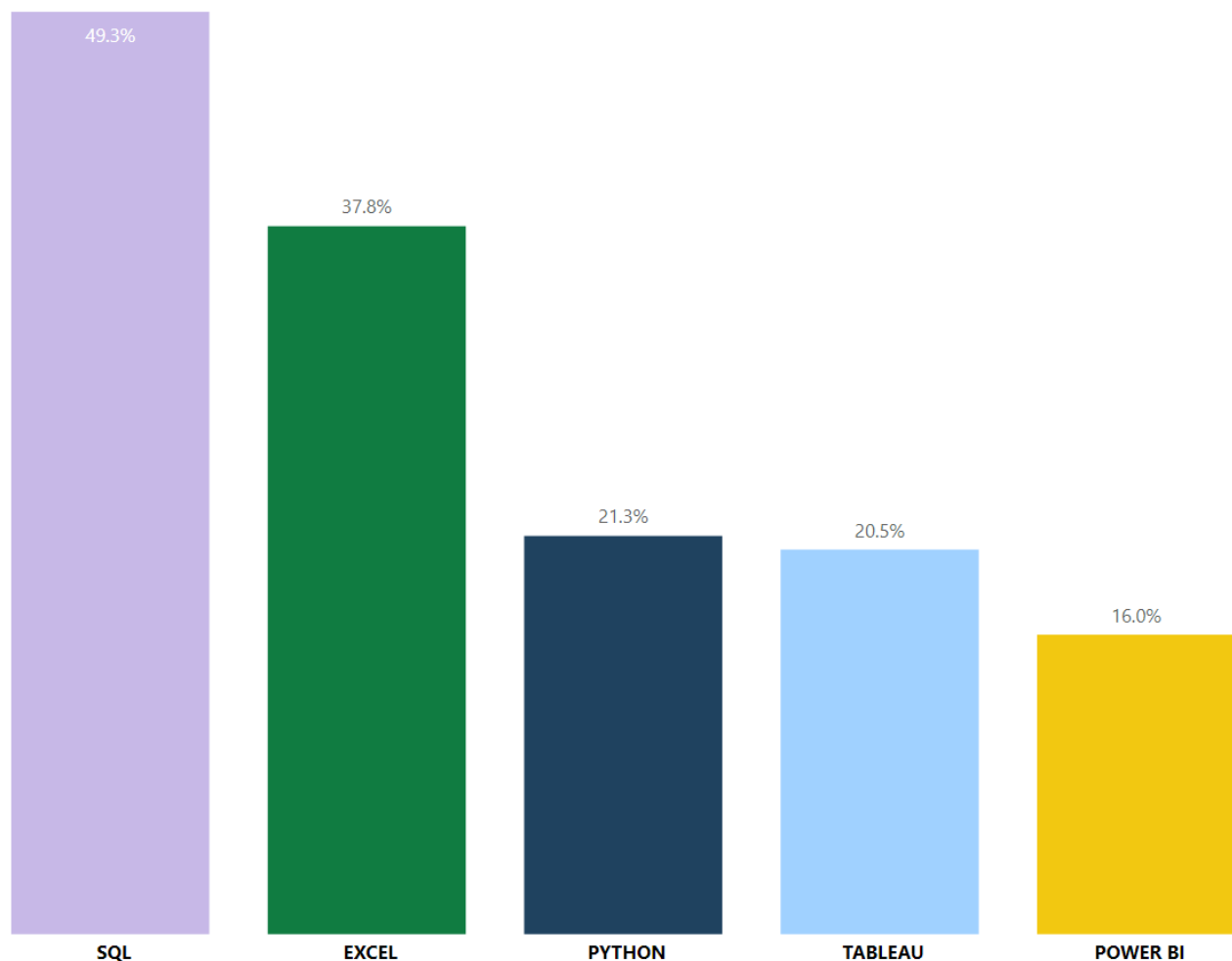
- Technical skills requirement

- Communication skill requirement
- Analytical skills requirement

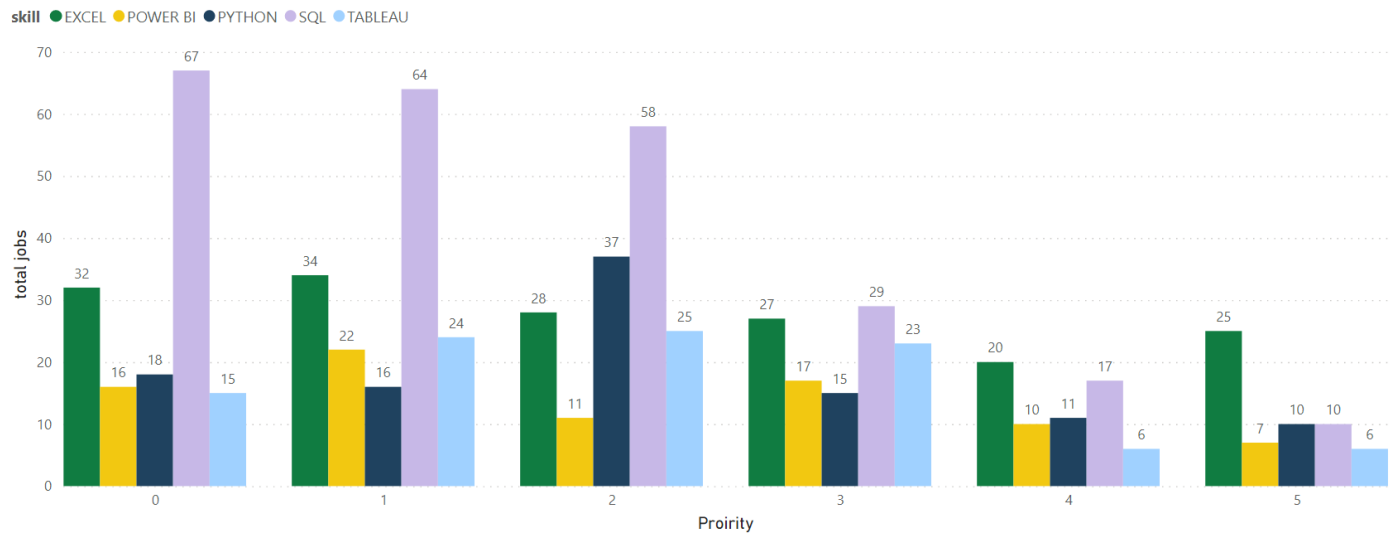
The next step is to find the most popular skillsets requirement among the 3 main areas: technical skills, communication skill and analytical skills.

Technical Requirements

From a technical perspective, the most popular technical tools mentioned are SQL, Tableau, Excel, Python and Power BI. We can analyse the priorities of these tools by analysis the order when they are mentioned in the posts.

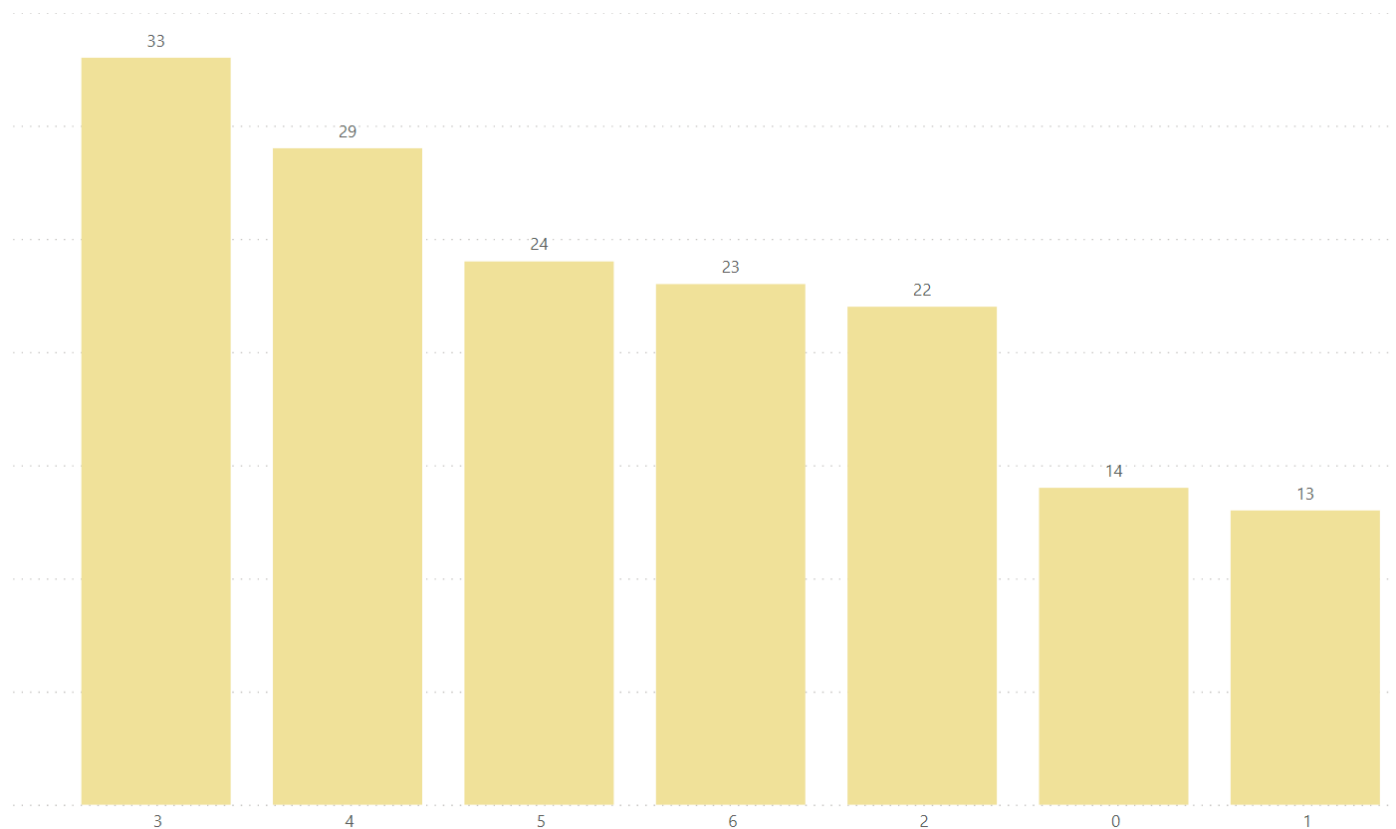


From a popularity perspective, we can identify that SQL was the most popular required skillset and required by nearly half of the data analyst jobs, followed by excel which is around 40%. Programming language Python, and data visualisation tools including Tableau and Power BI Are mentioned by around 20% of the jobs.



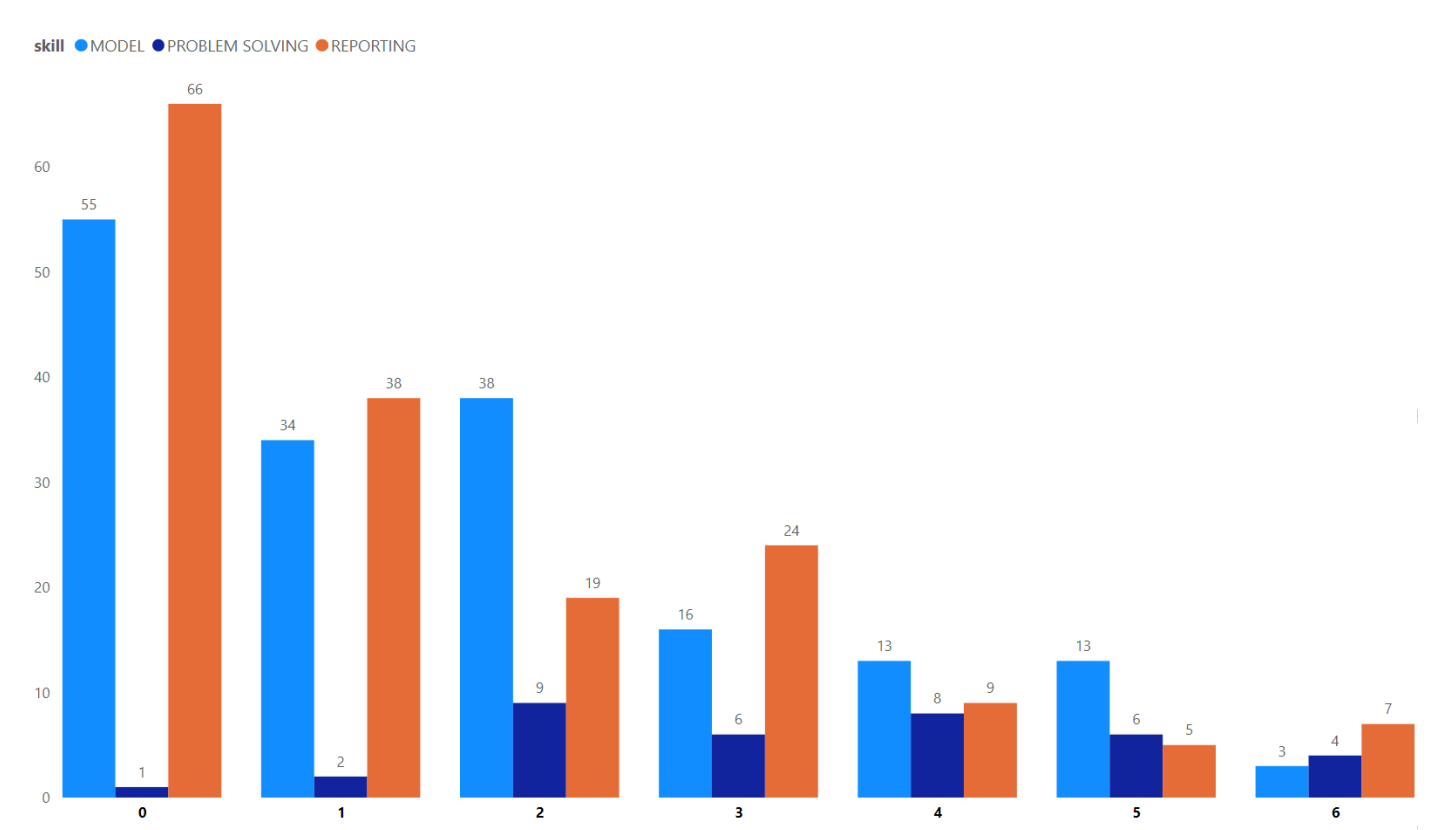
From a priority perspective, SQL, as the most popular skill requirement for data analyst, is also normally mentioned at the top 3 requirements. Excel is also important, but the important level is flatter. For python, we can identify that it is more likely to be mentioned as the third requirement. For visualisation tools, Power BI and Tableau, it is unlikely to be mentioned at the first requirement, but if mentioned, it would normally be shown on the second to the fourth listing.

Importance of Communication



As shown above, the most common position where communication be listed on a job would be the third and the fourth requirement. We can find that communication skill is commonly mentioned in the job duties and is one of the most important skill required.

Analytical Skillsets



From an analytical perspective, the reporting skill is mostly desired, it is commonly to be listed at the first requirement. Followed by data modelling skill.