



Technology Trends of Software Professionals

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OUTLINE



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EXECUTIVE SUMMARY



- As the faster development of technology and science, data professionals are somewhat required to handle at least one or multiple types of technology that will assist them to do better data analysis
- Types of Technology
 - Programming Languages
 - Databases
 - Platforms
 - Web Frames
- Objective: Find and analyze the technology trends of data professionals

INTRODUCTION



- This report is to find and analyze the trend of technology usage of data professionals, including current usage and future trend.
- This report is written for target consumers who want to enter the field of data analytics.
- Through this presentation, target consumers could quickly understand the trend of data professional technology usage and identify what they should learn additionally to better find jobs related to this field.

METHODOLOGY



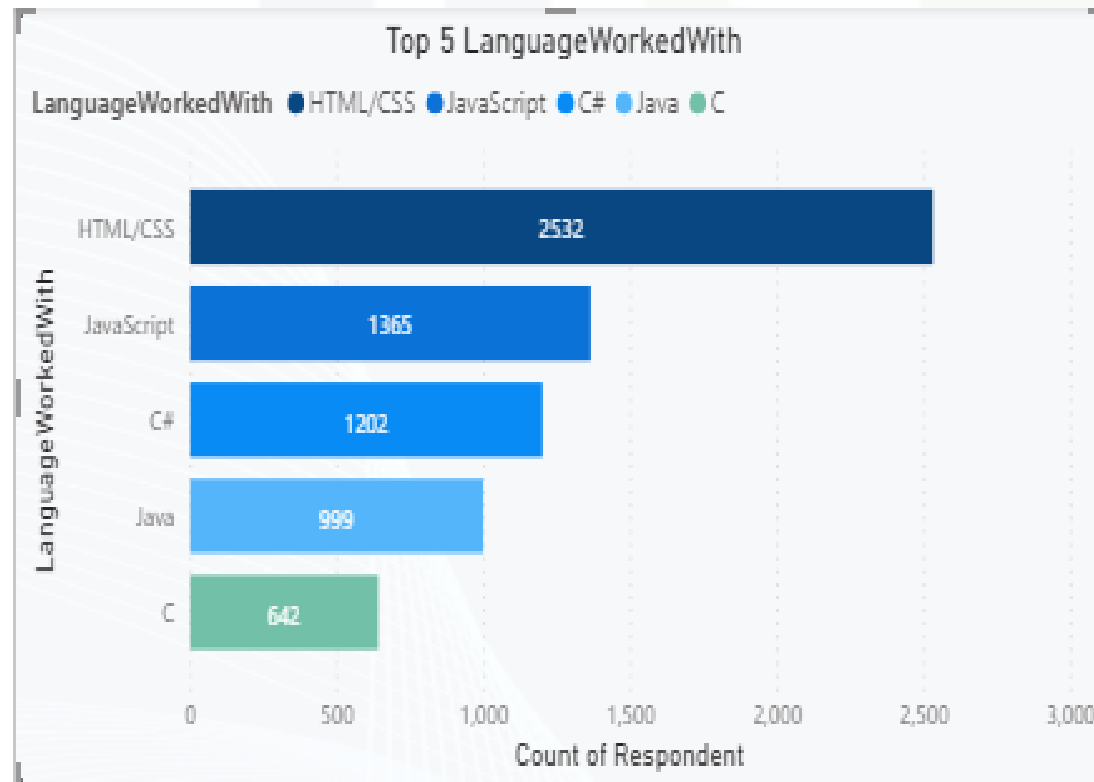
- The data was collected through survey, API and web scraping.
 - Survey: currently used technology, technology desired in the future, demographics
 - API: job posting data
 - Web scraping: popular language and salary list
- Sources of Data:
 - <https://stackoverflow.blog/2019/04/09/the-2019-stack-overflow-developer-survey-results-are-in/>
 - jobs.github.com/positions.json
 - [Salary survey results of programming languages \(appdomain.cloud\)](#)

RESULTS

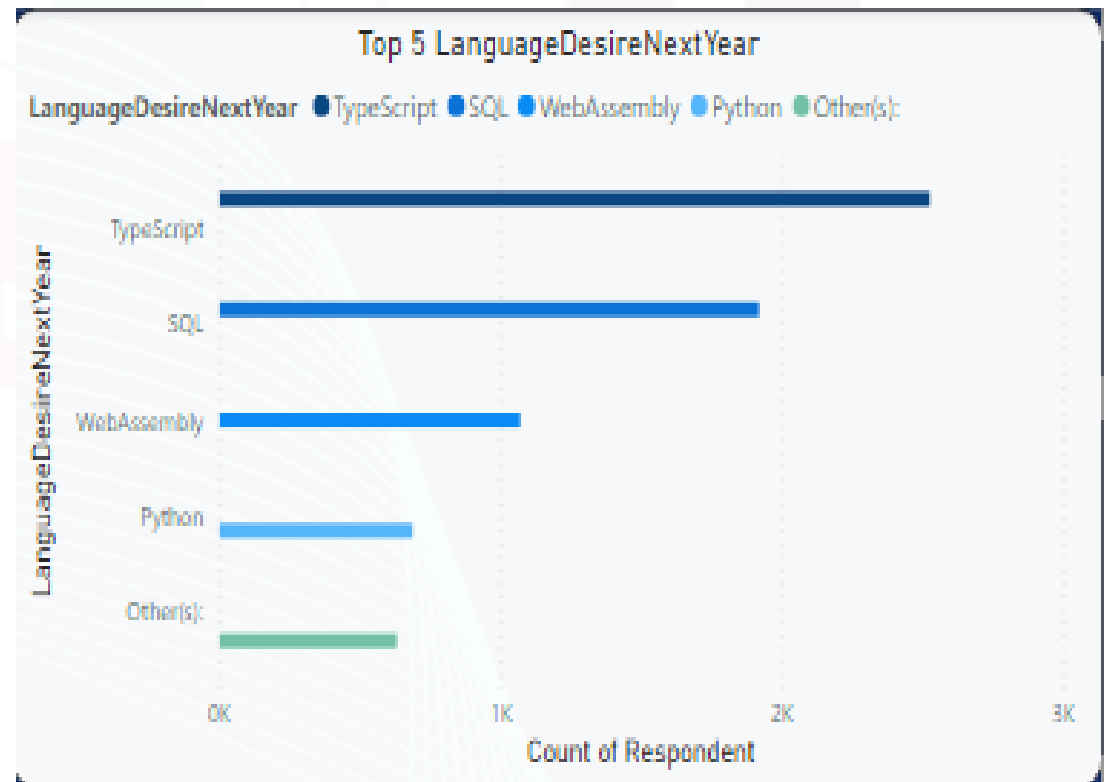


PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

HTML/CSS is the most popular programming language.

JavaScript is one of the most popular programming language for current usage and future trend.

Python is getting more and more popular in the future trend.

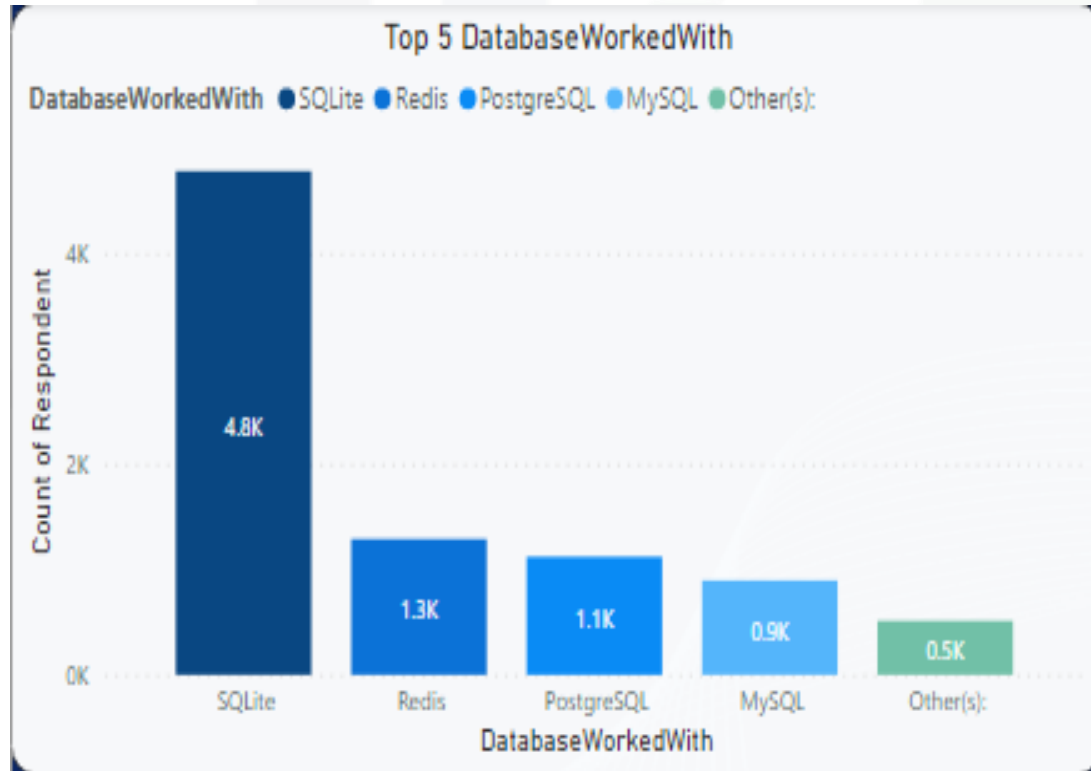
Implications

Front end development is very important in the data professional fields. If one wants to enter this field, one should be proficient in at least one of these front-end programming languages (JavaScript/HTML/CSS)

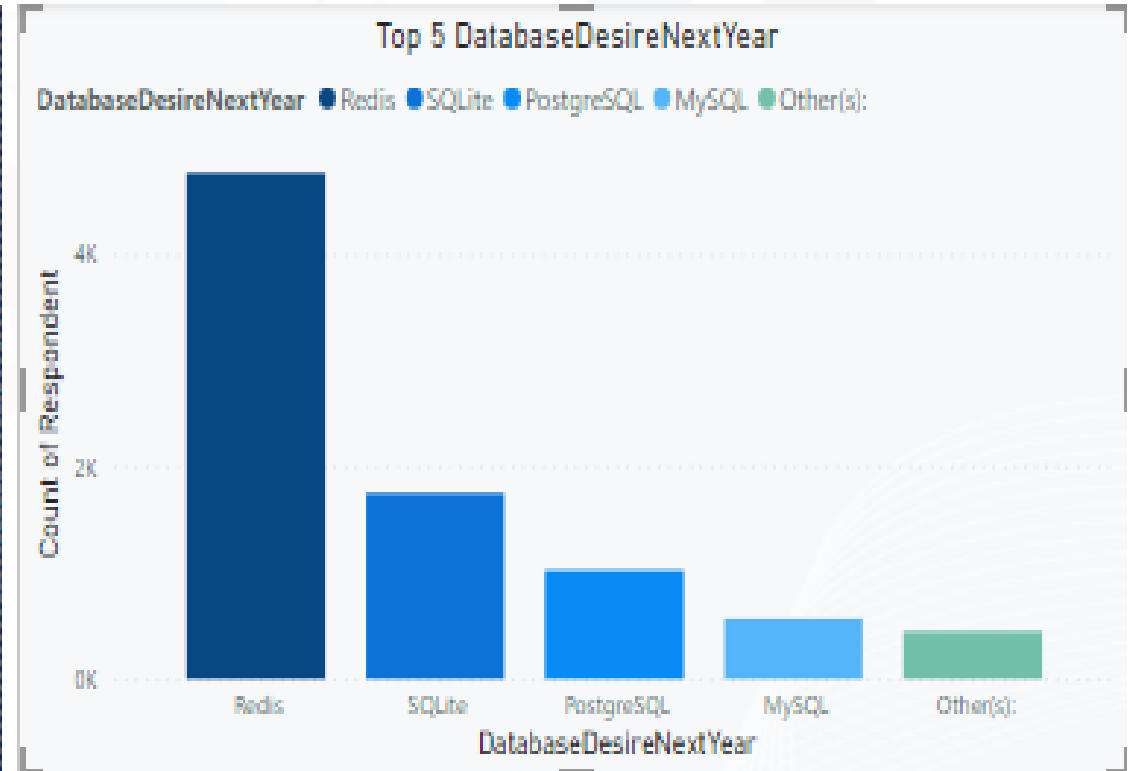
Learning Python will increase one's competitiveness in the future data professional market.

DATABASE TRENDS

Current Year



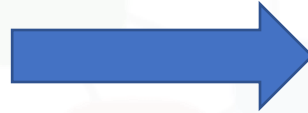
Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

SQLite is an important database that data professionals currently use most.



Redis and **PostgreSQL** is second database that data professionals currently use most.



Implications

MySQL is highly recommended to learn before entering the field of data analytics as it is the basis

You may also get familiar with these two databases to increase your competitiveness in the job market.

DASHBOARD



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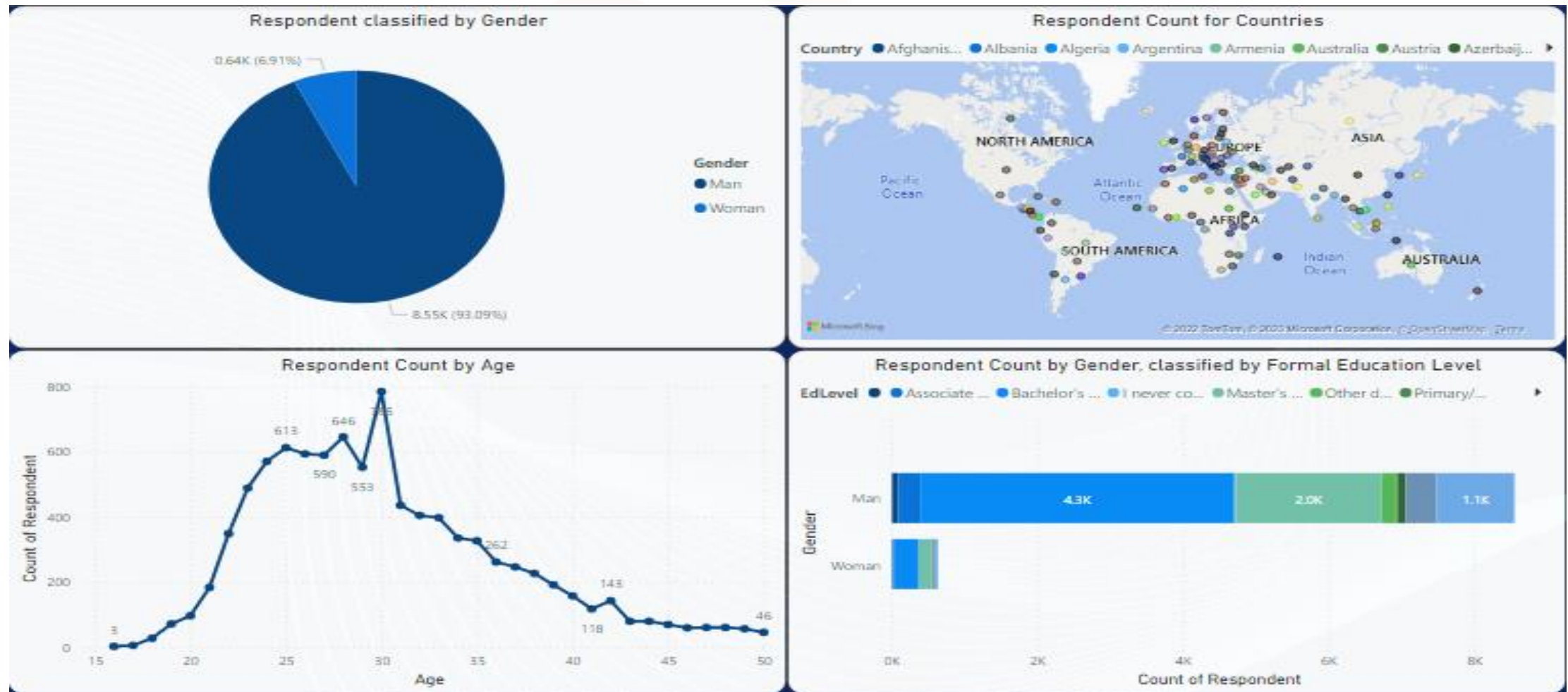
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



CONCLUSION



- Data analytics are becoming more and more popular as many fields require data analysis to make decisions.
- In order to become data professionals, we recommend one to manage software skills including programming languages and databases.
- Recommendation:
 - Programming languages: JavaScript, HTML/CSS, Python
 - Databases: MySQL, PostgreSQL, MongoDB