



Stack Overflow Developer Survey 2019

ABIN PM

10/01/2023

OUTLINE



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EXECUTIVE SUMMARY



- JavaScript, Python, HTML/CSS, SQL, and TypeScript are the most desirable programming languages for next year.
- PostgreSQL, MongoDB, Redis, MySQL, and Elastic Search are the most desirable databases for next year.
- Gender gap in the IT industry.
 - Male = 93.7%
 - Female = 6.3%

INTRODUCTION



- Stack Overflow, a popular website for developers, conducted a survey amongst developers from around the world about technology trends in 2019 based on :
 - I. Programming Languages
 - II. Databases
- Target audience:
 - i. IT professionals
 - ii. Anyone interested in the IT field

METHODOLOGY



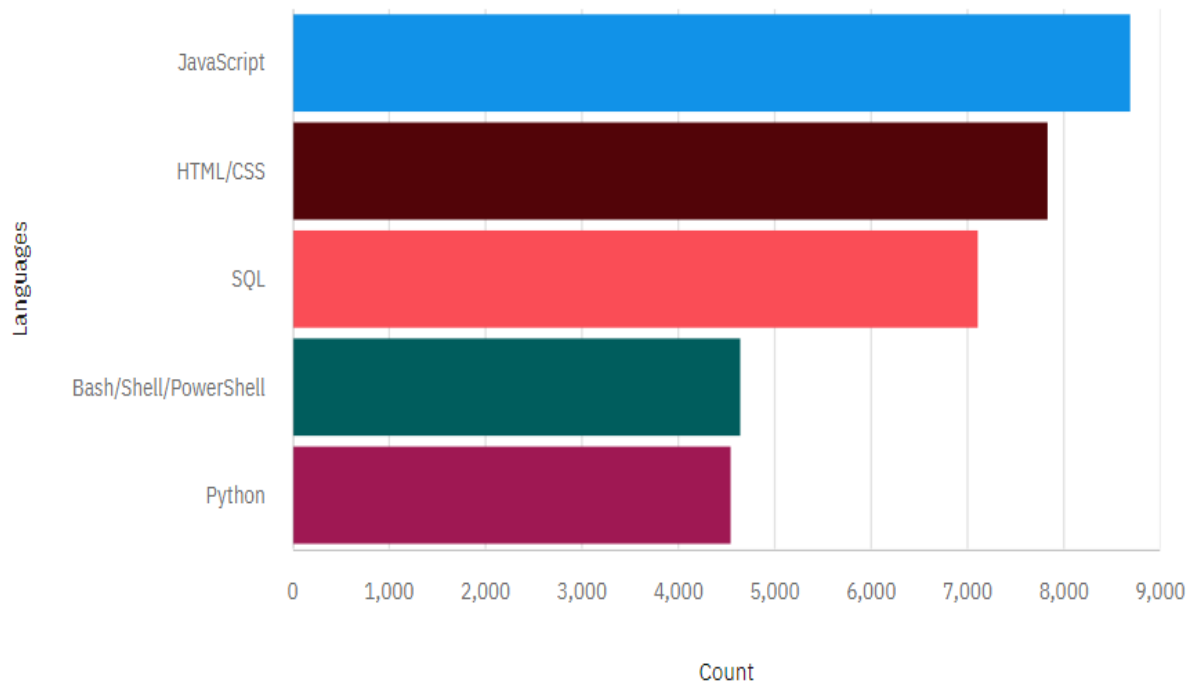
- Data Sources:
 - i. Stack Overflow Developers Survey 2019
 - ii. GitHub Job Posting
 - iii. Programming Language Annual Salary
- Data Exploration and Cleaning
 - i. Python
- Data Visualization
 - i. IBM Cognos Analytics
- Presentation

RESULTS

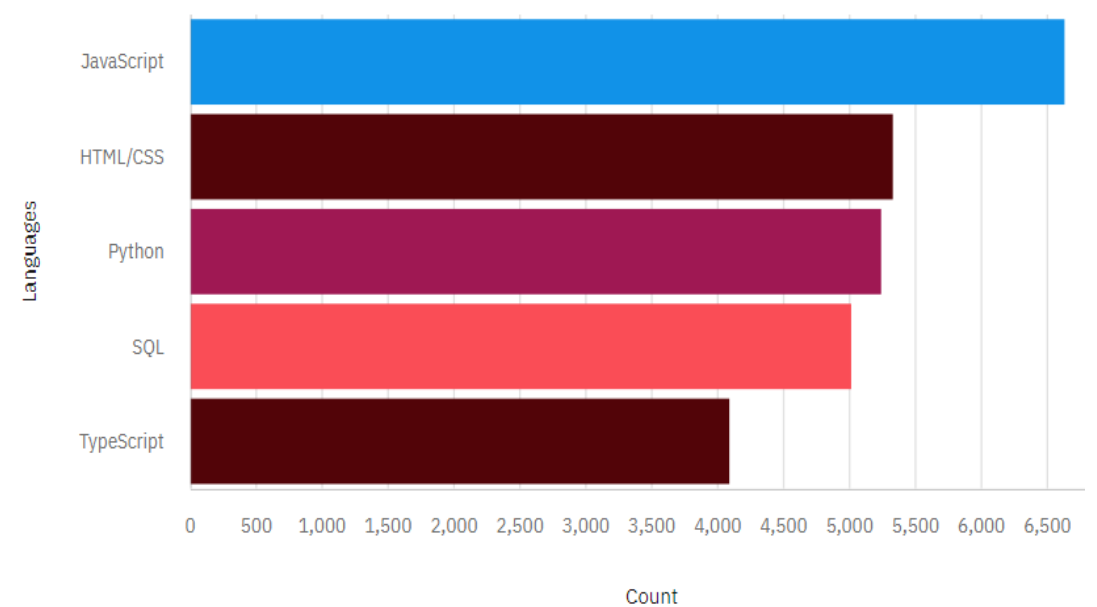


PROGRAMMING LANGUAGE TRENDS

Current Year



Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

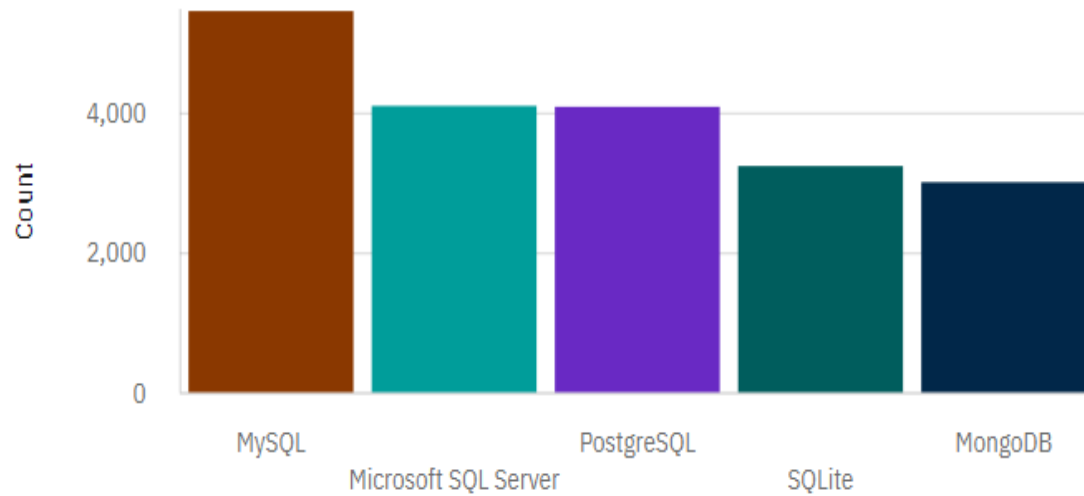
- JavaScript will be continued to be the most popular language in the current and the next year
- Python and TypeScript will have a rise in popularity in the next year
- Bash/Shell/PowerShell will lose its popularity in the next year

Implications

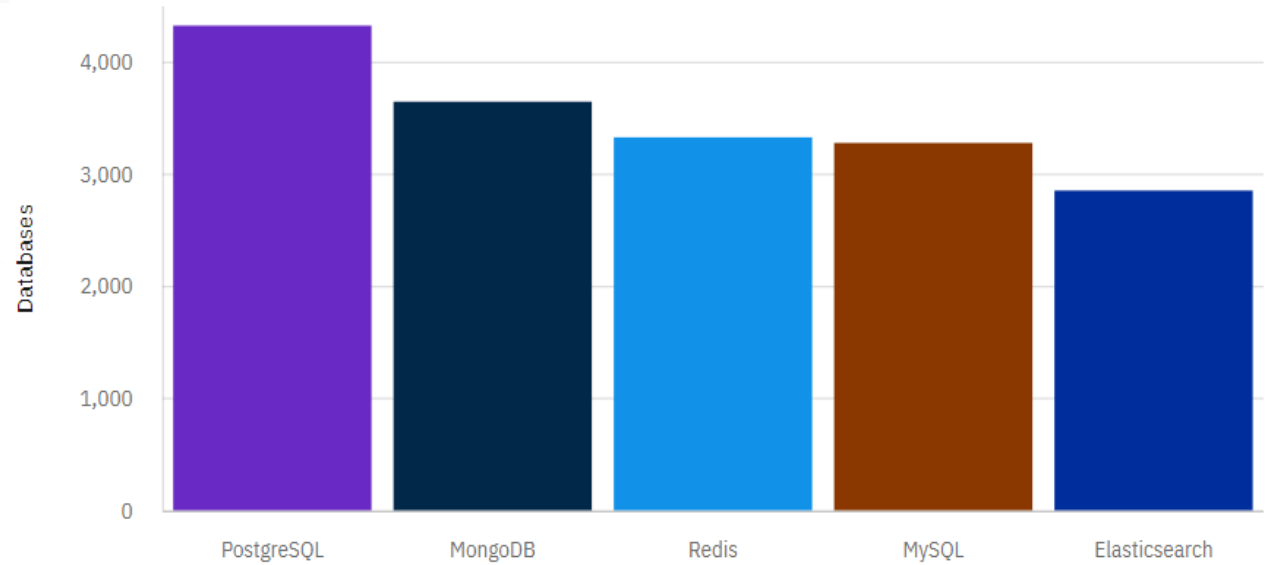
- JavaScript is an important programming language for a stack overflow developer in the future years
- Python and TypeScript are the emerging languages in the stack overflow developer community
- Bash/Shell/PowerShell is outdated in the stack overflow developer community

DATABASE TRENDS

Current Year



Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- PostgreSQL, MongoDB, Redis and Elasticsearch will have a rise in popularity in the next year
- Microsoft SQL server and SQLite will lose its popularity

Implications

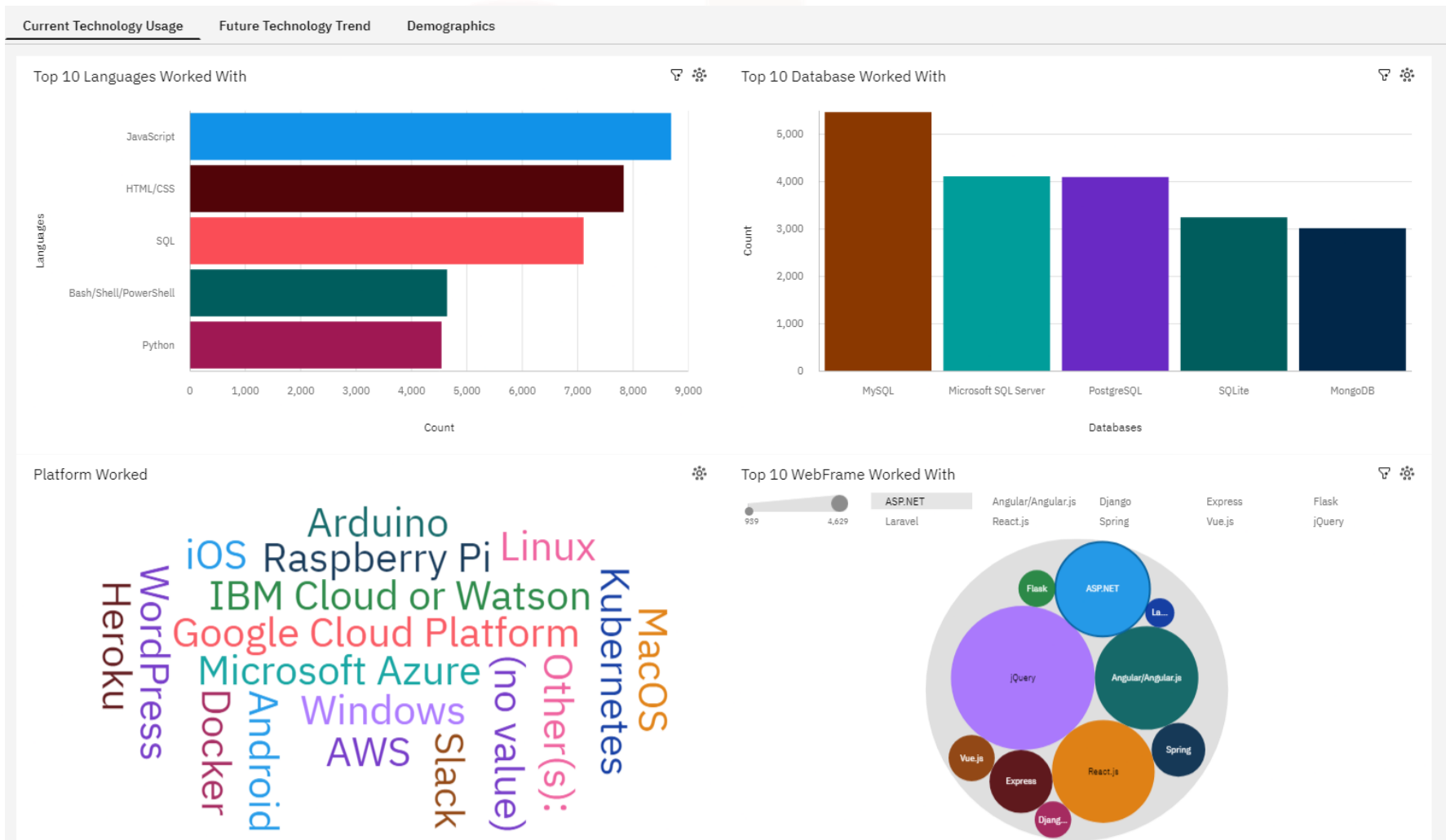
- PostgreSQL, MongoDB, Redis and Elasticsearch are the emerging Databases
- Microsoft SQL server and SQLite will get outdated

DASHBOARD

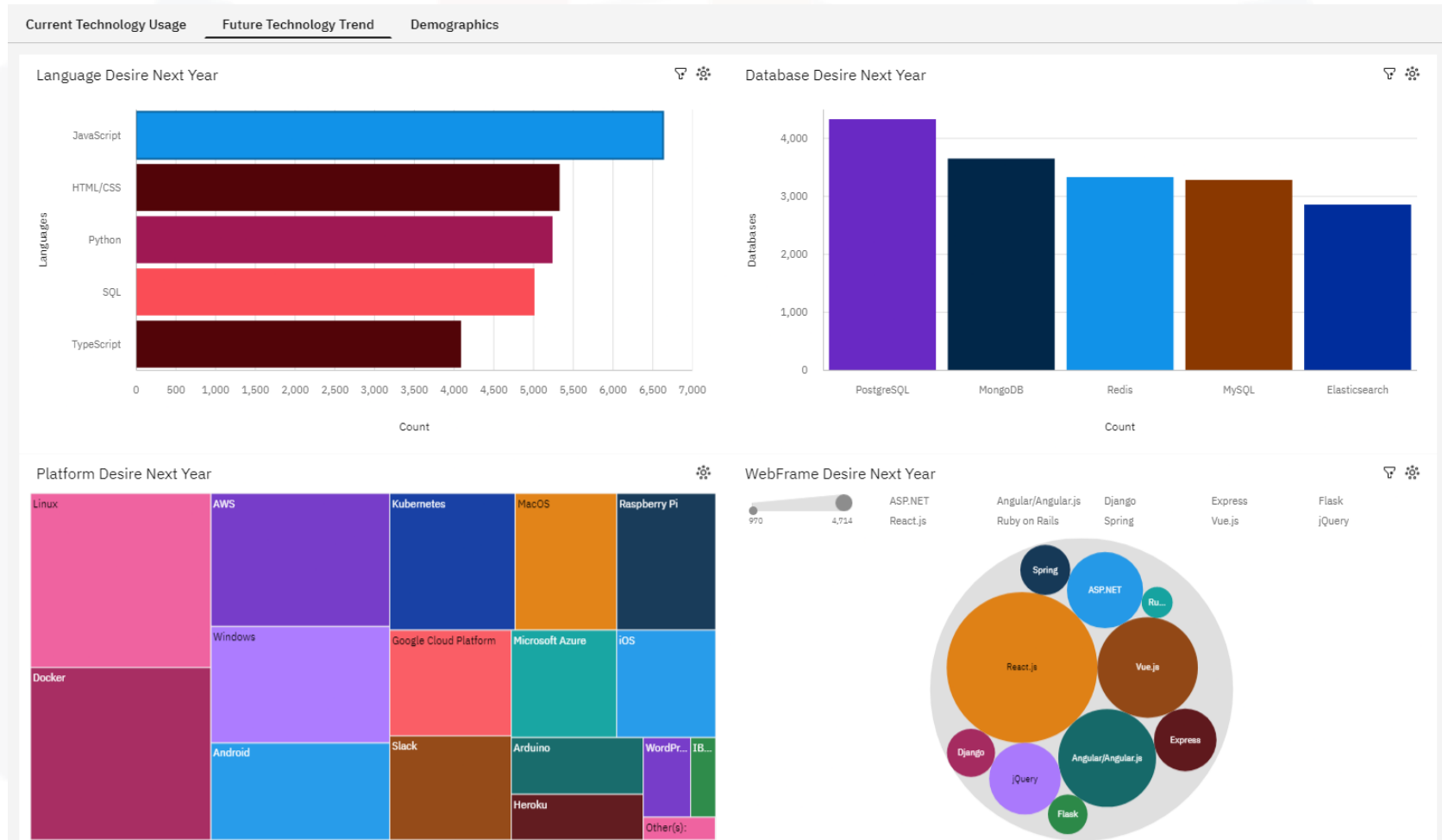


[Dashobard link](#)

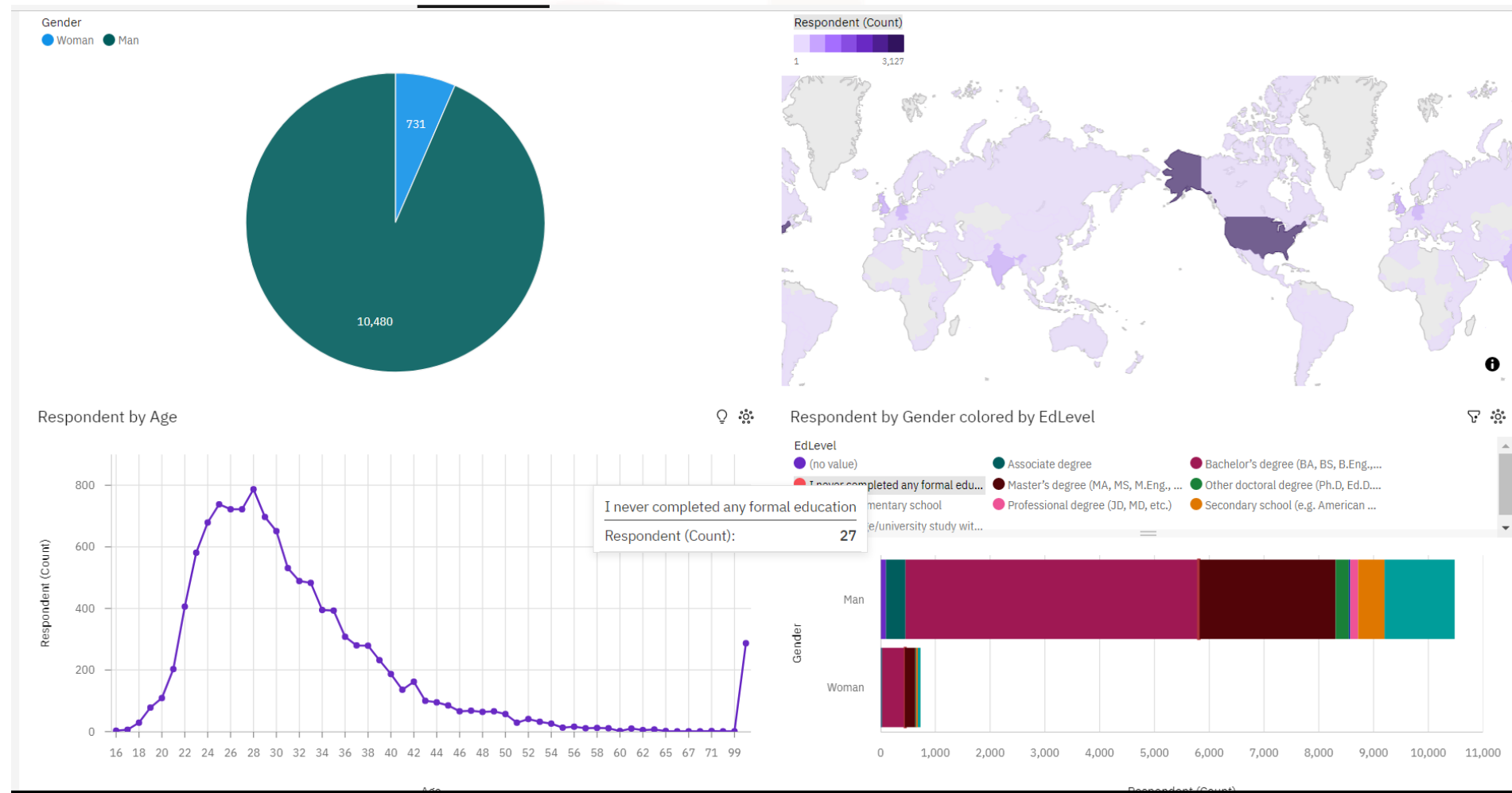
DASHBOARD TAB 1



DASHBOARD TAB 2



DASHBOARD TAB 3



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- Trends and Demands are fluctuating based on the emerging Technologies
- JavaScript is the most desired language in the next year
- PostgreSQL is the most desired Databases in the next year
- There is sever Gender Gap in the Industry

Implications

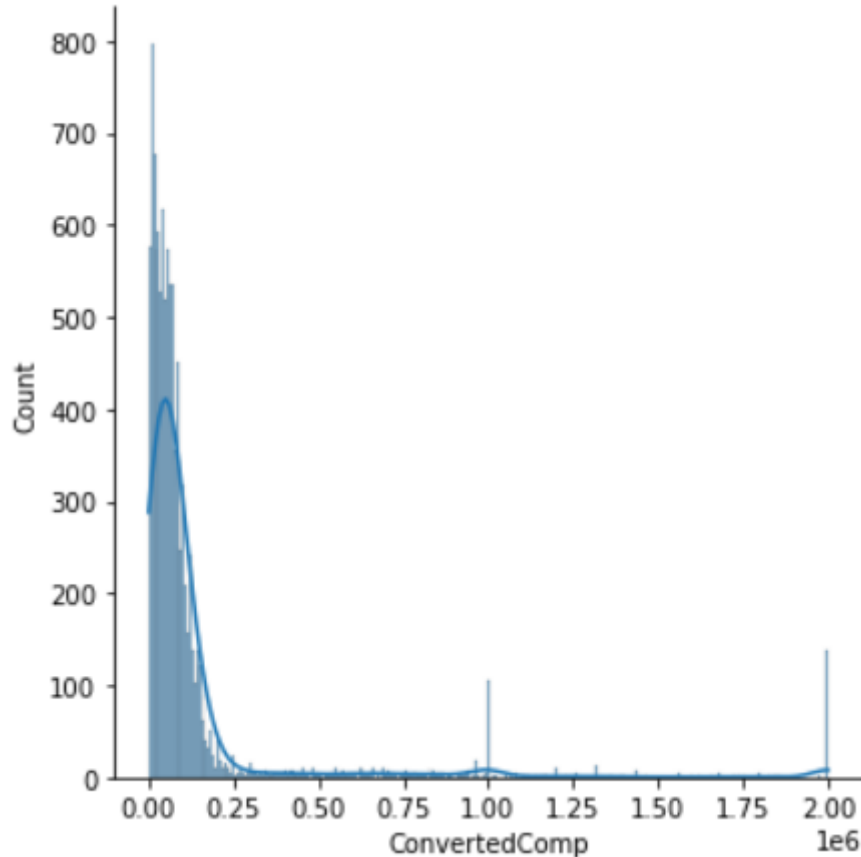
- IT professional and Companies are adapting to the new technologies
- JavaScript is the most demand skill required developers
- PostgreSQL Databases will have a rise in users in the coming year
- Gender Gap will affect the Job hiring Trend in the Industry

CONCLUSION



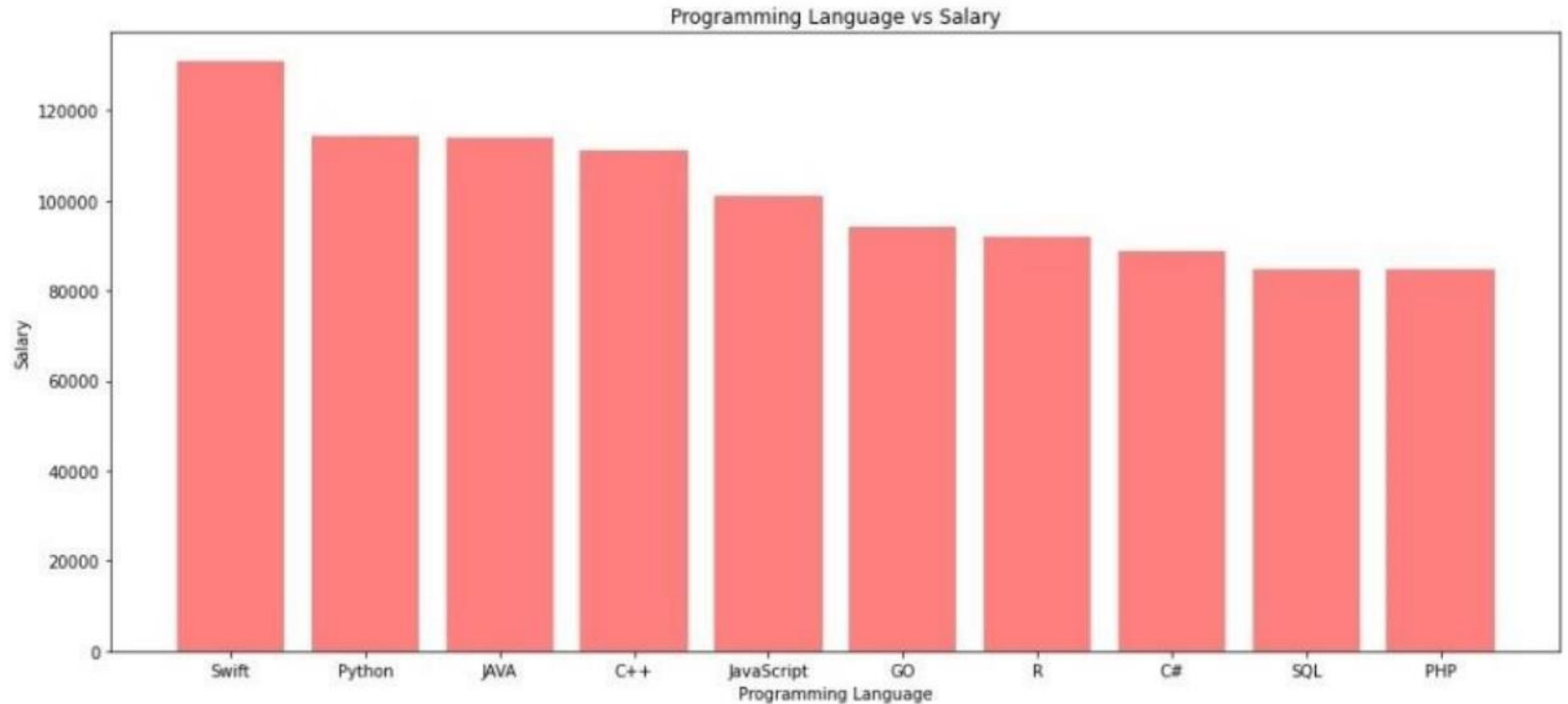
- IT industry is constantly adapting to the new Emerging technologies
- JavaScript is having a consistent demand in the industry
- Majority of the programmers have a professional degree
- Majority of the programmers are in the age group between 22 and 35. stack overflow developers are more likely to either choose a different field of work or retire by the age of 36

APPENDIX



- Majority of the employees are having the 25% of the salary of the most earning employee
- As the salary gets higher the number of employee earning that salary gets decreases

JOB POSTINGS



POPULAR LANGUAGES

