



POPULAR TOOLS & TECHNOLOGY AMONG DEVELOPERS

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OUTLINE



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 - Visualization – Charts
 - Dashboard
- Discussion
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EXECUTIVE SUMMARY



- JavaScript, Python and HTML/CSS remain highly in demand for their versatility
- MySQL, PostgreSQL and Microsoft SQL Server are most popular database.
- AWS, Linux, and Windows are the top platforms
- React and Angular are the most commonly used frameworks
- Developer Demographics:
 - Majority identify as male
 - Largest age group is 20-30
 - The U.S. has the highest number of developers

INTRODUCTION



- Analyze the current trends in the developer community using insights from Stack Overflow's annual survey.
- These insights shed light on the evolving landscape of programming languages, web frameworks, and the demographics of professional developers
- The findings may not reflect the entire developer population
- Highlight the more widely used tools among developers

METHODOLOGY



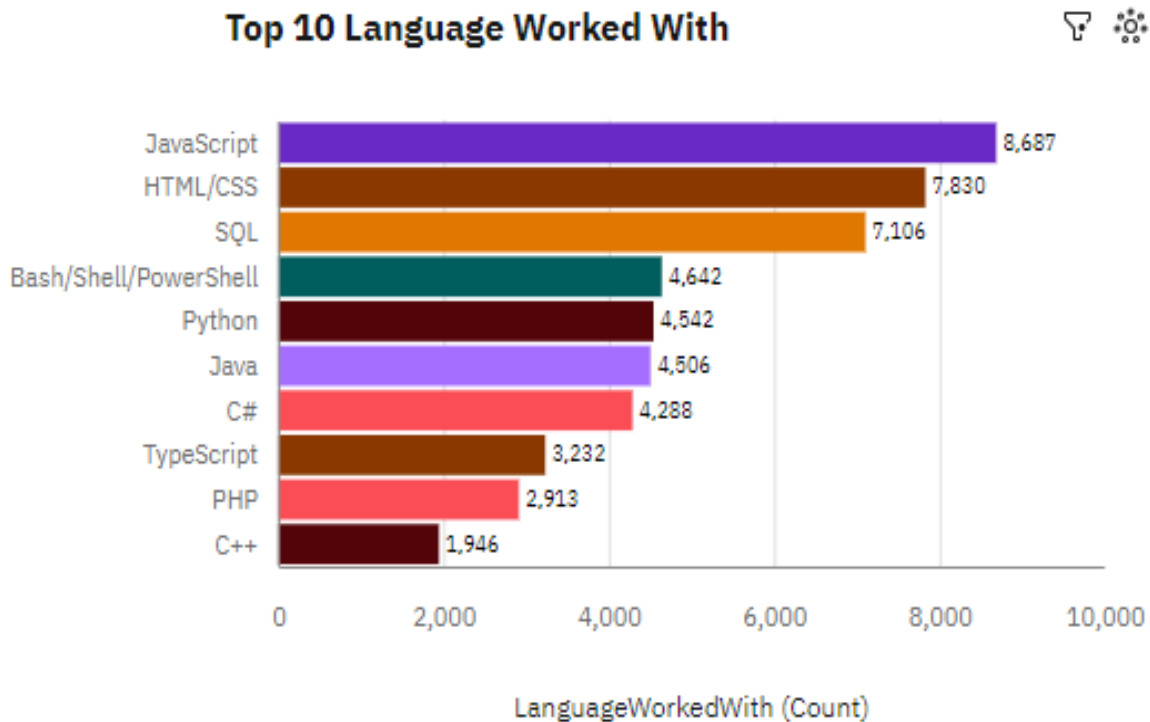
- Data Collection
 - Web Scrapping
 - APIs
- Data Pre-Processing
 - Data Cleaning
- Exploratory Data Analysis
 - Analyzing data distribution
 - Handling outliers
 - Checking Correlation
- Data Visualization
 - Highlight data distributions, relationships and correlations
- Building Dashboard

PROGRAMMING LANGUAGE TRENDS

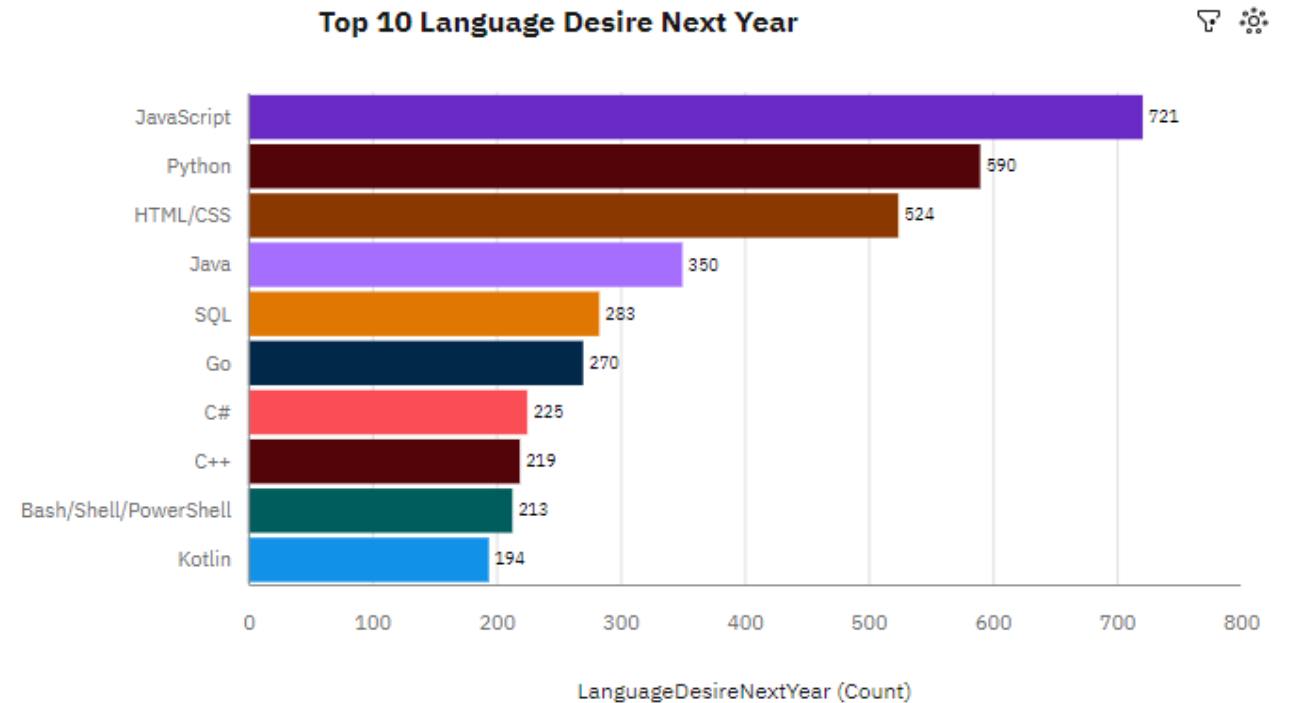
Current Year

Next Year

Top 10 Language Worked With



Top 10 Language Desire Next Year



PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

Findings

- JavaScript is most popular language
- HTML/CSS & SQL are the important tools
- Python is gaining popularity

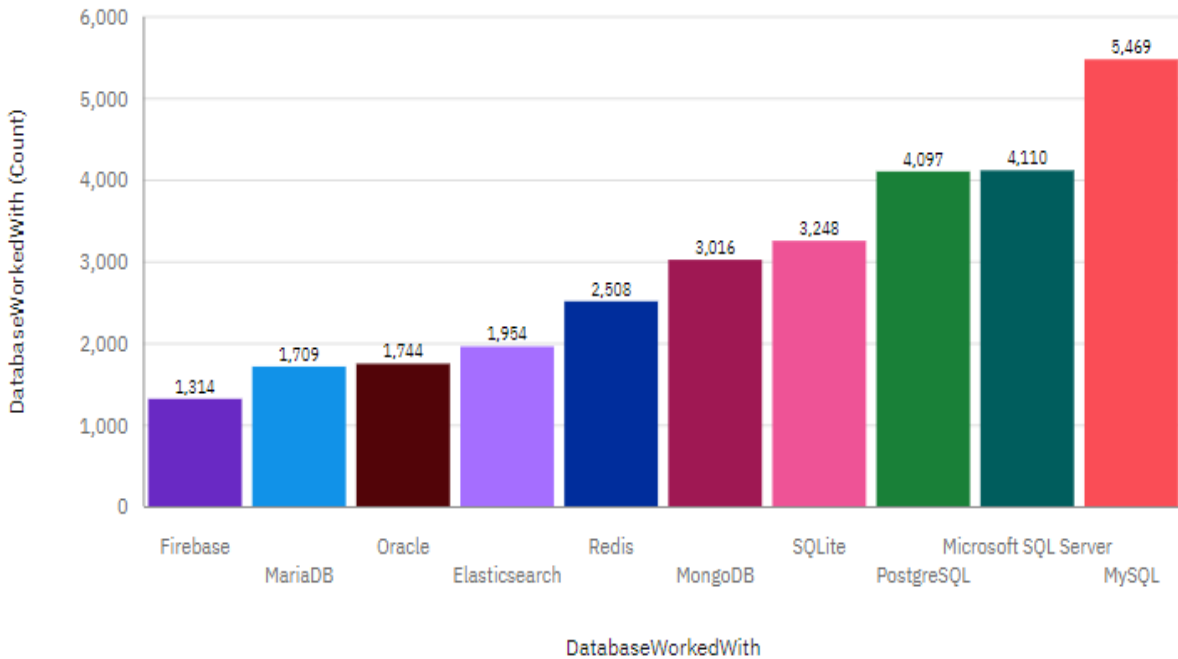
Implications

- Typescript language is gaining popularity and more people are shifting towards it.

DATABASE TRENDS

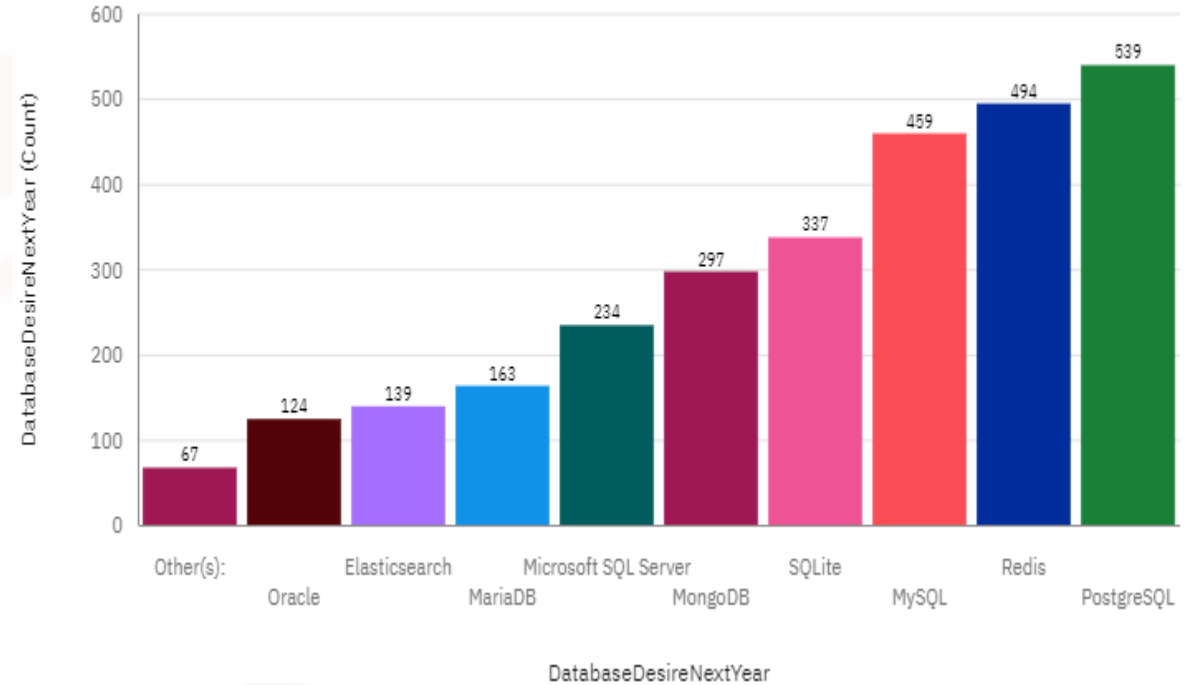
Current Year

Top 10 Database Worked With



Next Year

Top 10 Database Desire Next Year



DATABASE TRENDS - FINDINGS & IMPLICATIONS

Findings

- MySQL is the most commonly used database
- PostgreSQL & Redis is gaining popularity

Implications

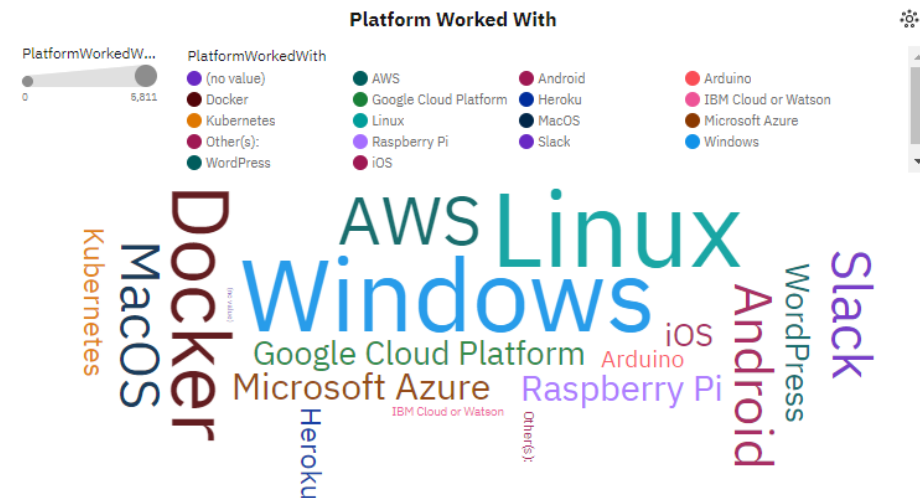
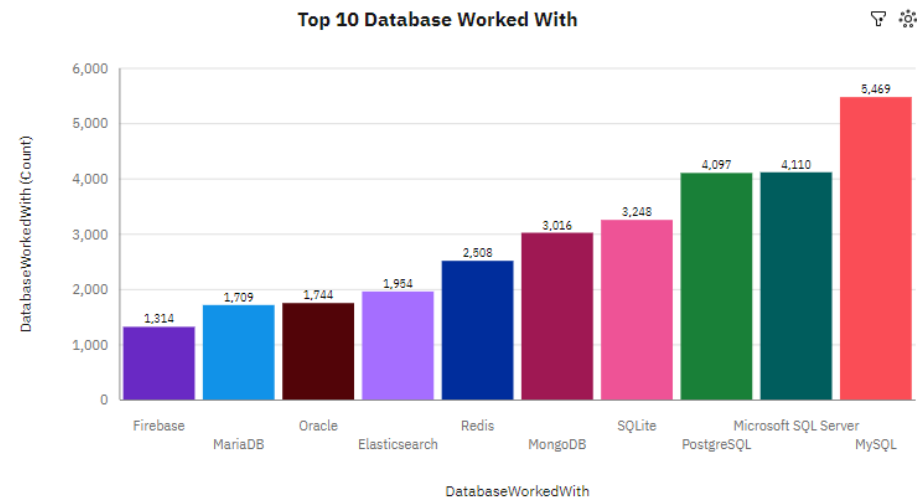
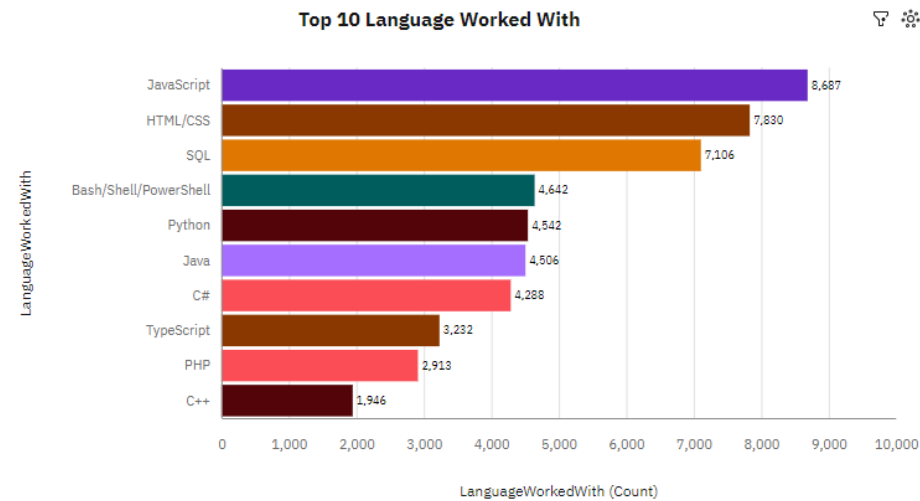
- PostgreSQL is most desired language to learn due to its advance features and scalability

DASHBOARD

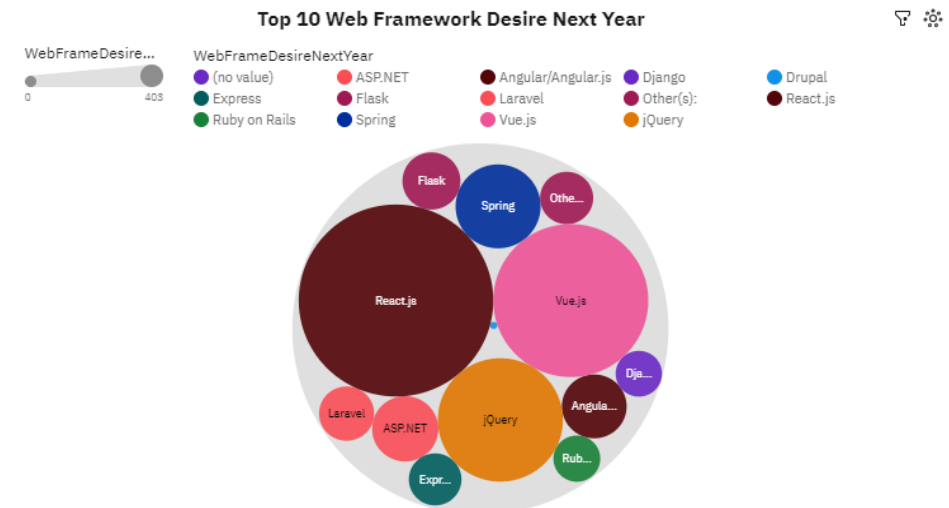
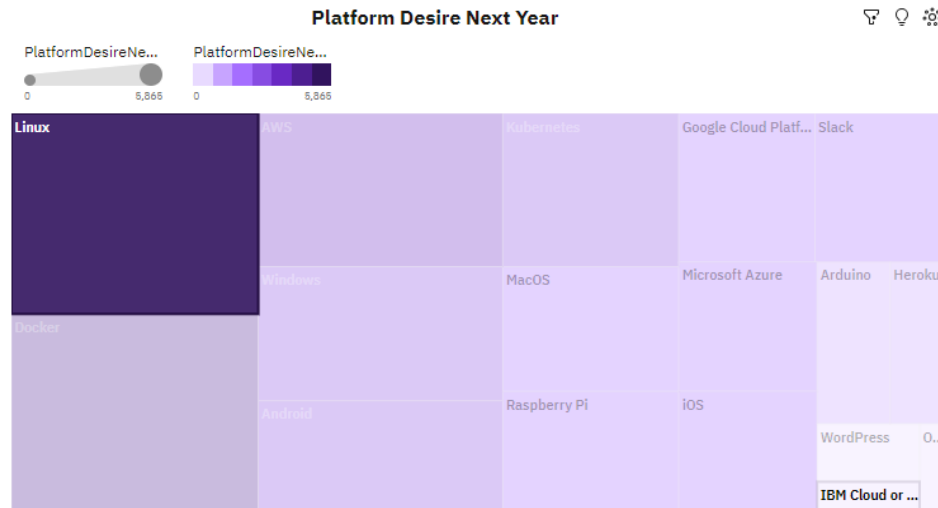
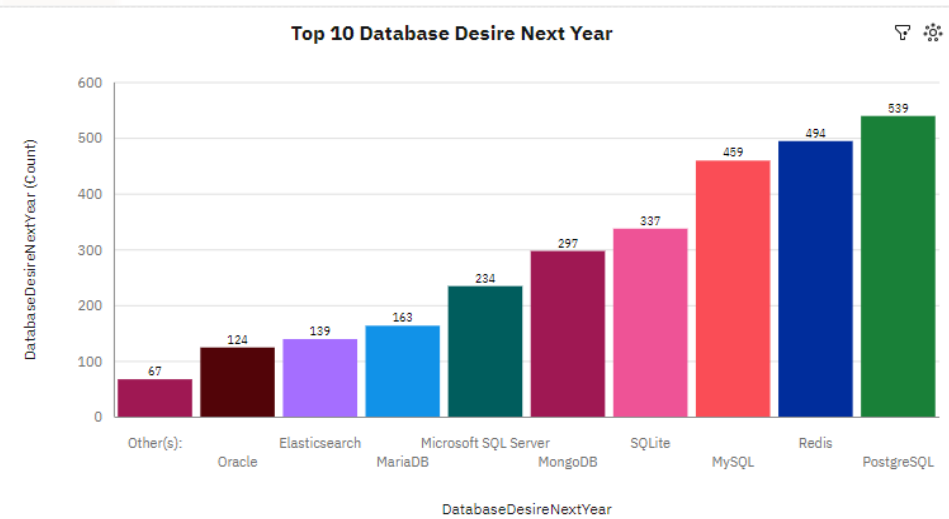
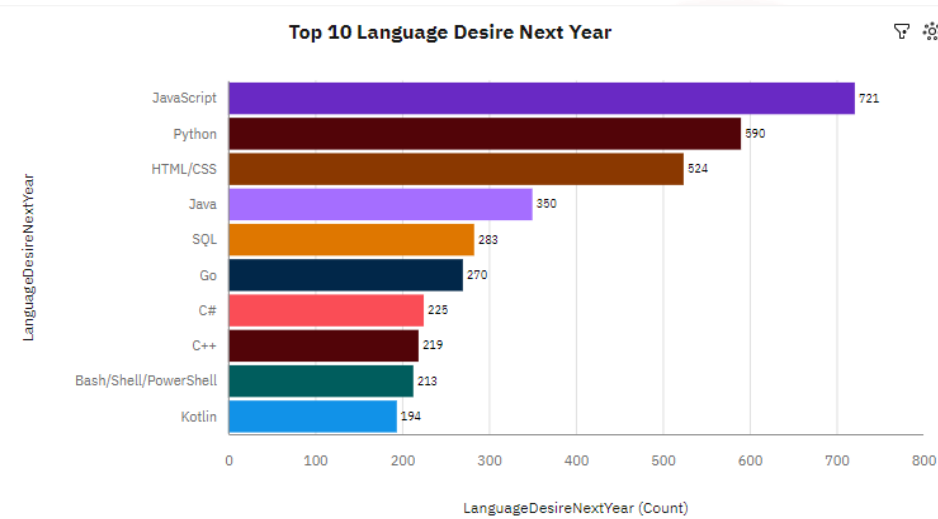


<https://github.com/rksin8/IBM-Data-Analyst-Capstone-Project/blob/main/dashboard/Task%206.pdf>

CURRENT TECHNOLOGY USAGE



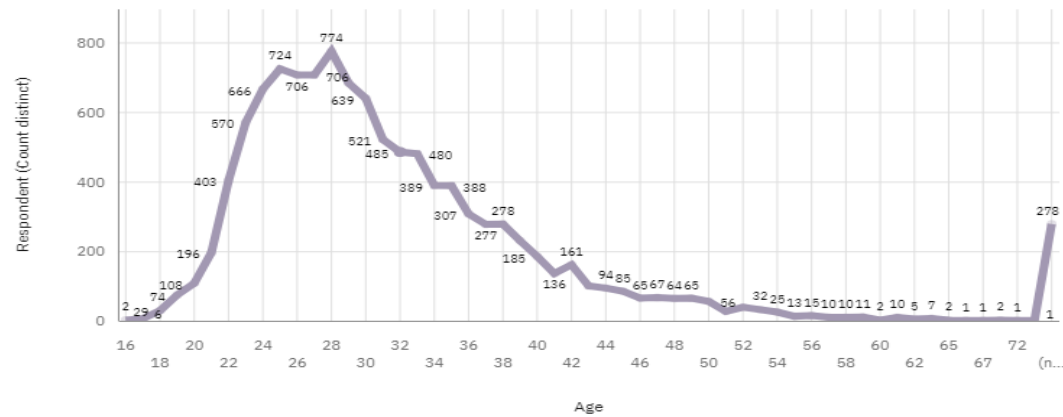
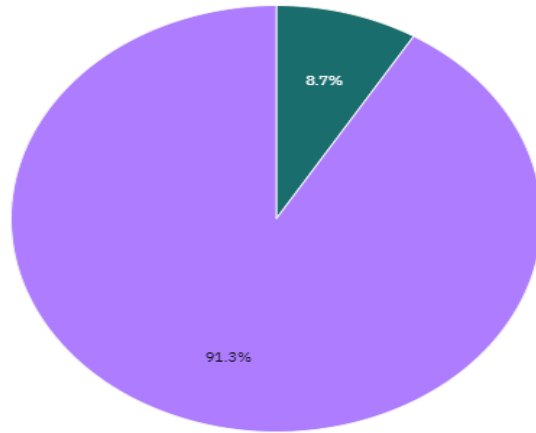
FUTURE TECHNOLOGY TREND



DEMOGRAPHICS

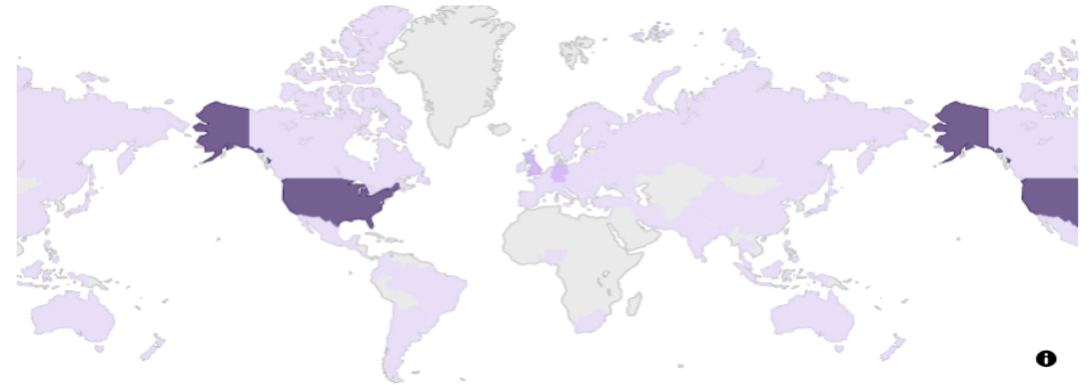
Respondent by Gender

Gender
● Woman ● Man



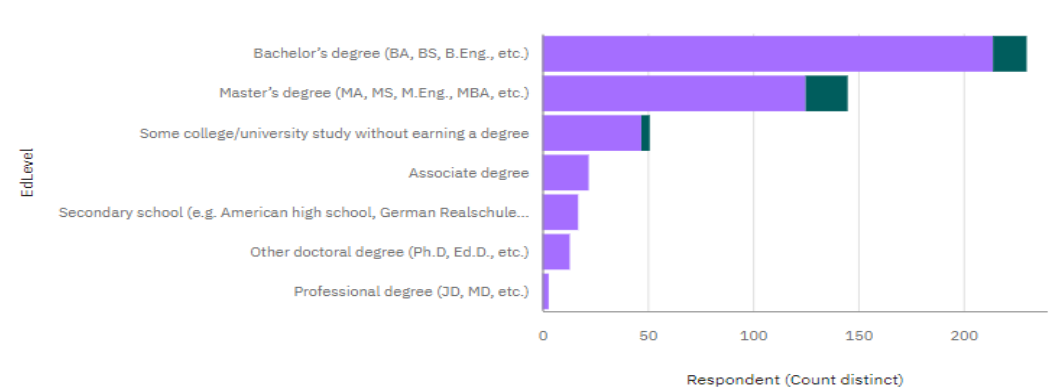
Respondent Count by Country

Respondent (Count)
1 141



Respondent Count by Education Level and Gender

Gender
● Man ● Woman



DISCUSSION



OVERALL FINDINGS & IMPLICATIONS

Findings

- Python & JavaScript is gaining popularity among developers
- Over 90% developers are male and age between 20-30
- Majority of developers have formal college or university education

Implications

- Technology is shifting towards more typescript language like JavaScript, Python.
- Formal education is not mandatory for developers

CONCLUSION



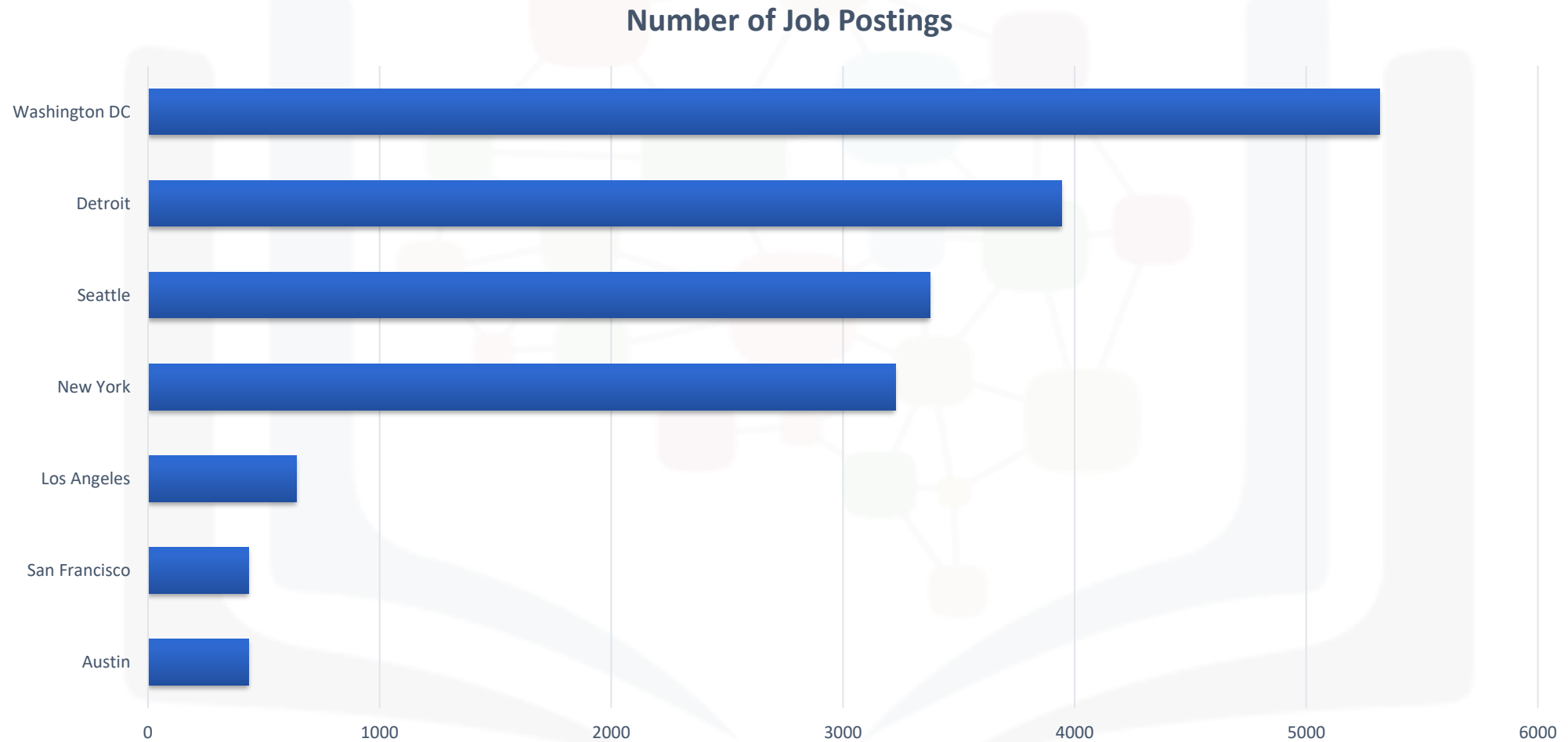
- Developers from diverse regions and backgrounds reflect the global technology trends
- Programming languages and technologies change rapidly
- Keeping up with trends in programming languages, platforms, and tools is essential.

APPENDIX



- Job postings.
- Popular Languages

JOB POSTINGS



POPULAR LANGUAGES

