



# Technology of Future

Sufyan Dawnak  
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# OUTLINE

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- Executive Summary
- Introduction
- Methodology
- Results
  - Visualization – Charts
  - Dashboard
- Discussion
  - Findings & Implications
- Conclusion
- Appendix

# EXECUTIVE SUMMARY

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- Current Technology Trends
- Future Technology
  - Language
  - Database
  - Platform
  - Web Frame
- Demographics Survey
- Technology gap in countries
- Gender Gap in jobs

# INTRODUCTION

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About

Analyzing the trends in technology

Purpose:

- Identify the Skill requirement
- Identify the technology of future
- Top technology used by the programmers
- Popular platforms used

Audience: HR and IT HEad

# METHODOLOGY

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- Data Collection
- Data Exploration
- Data Wrangling
- Data Visualization
- Presentation

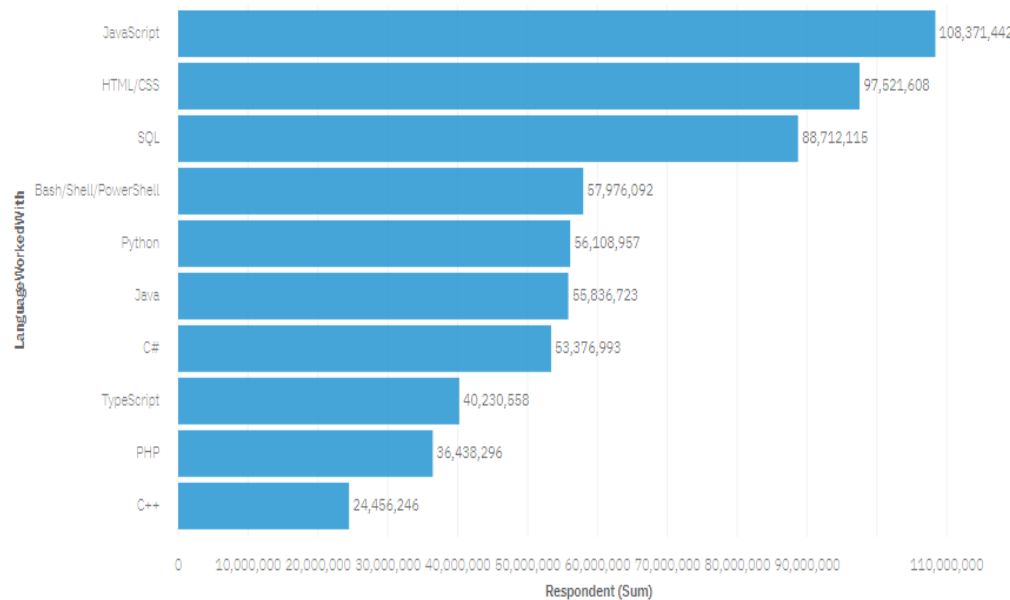
# RESULTS

Respondent	LanguageWorked...	LanguageDesireNextY...	DatabaseWorked...	DatabaseDesireNextY...	PlatformWorked...	PlatformDesireNext...	WebFrameWorked...	WebFrameDesireNextY...
4	C	C	MySQL	MySQL	Linux	Linux		
4	C++	C#	SQLite	SQLite	Windows	Windows		
4	C#	JavaScript						
4	Python	SQL						
4	SQL							
9	Bash/Shell/PowerShell	Bash/Shell/PowerShell	DynamoDB	PostgreSQL	AWS	AWS	Express	Express
9	C#	C	PostgreSQL	Redis	Docker	Docker	Ruby on Rails	Ruby on Rails
9	HTML/CSS	HTML/CSS	SQLite	SQLite	Heroku	Heroku	Other(s):	Other(s):
9	JavaScript	JavaScript			Linux	Linux		
9	Python	Ruby			MacOS	MacOS		
9	Ruby	Rust			Slack	Slack		
9	Rust	SQL				Other(s):		
9	SQL	TypeScript						
9	TypeScript	WebAssembly						
9	WebAssembly	Other(s):						
9	Other(s):							
13	Bash/Shell/PowerShell	Bash/Shell/PowerShell	Couchbase	Firebase	Android	Android	Angular/Angular.js	Express
13	HTML/CSS	HTML/CSS	DynamoDB	MySQL	AWS	AWS	ASP.NET	Vue.js
13	JavaScript	JavaScript	Firebase	Redis	Docker	Docker	Express	

# PROGRAMMING LANGUAGE TRENDS

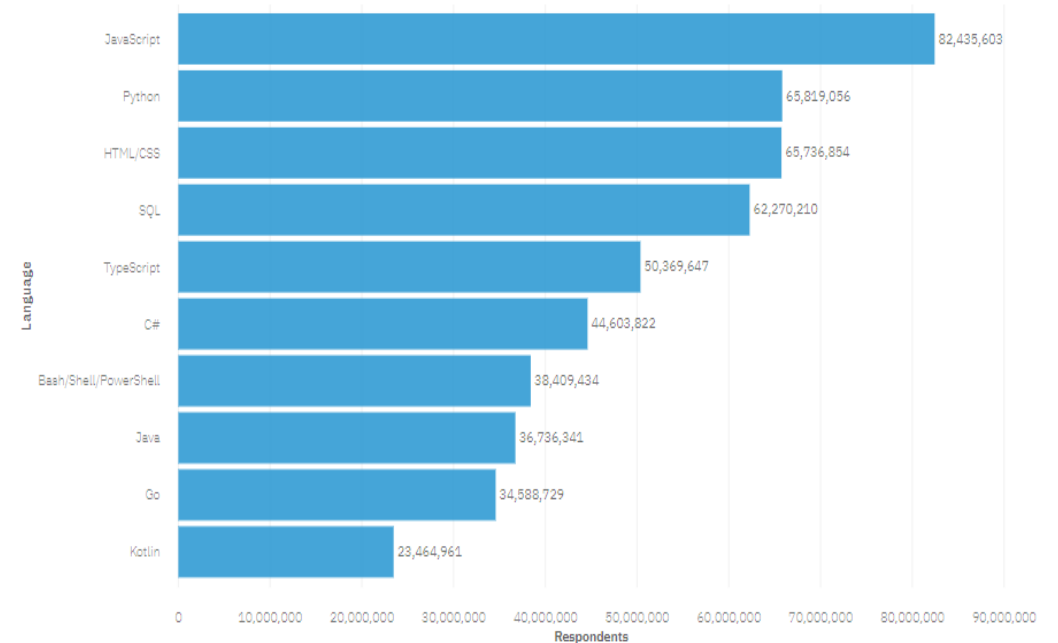
## Current Year

Top 10 Languages



## Next Year

Top 10 Language Desire Next Year



# PROGRAMMING LANGUAGE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- JavaScript, HTML/CSS and SQL are at Top 3 in current year.
- Python gained popularity in desired language next year.
- PowerShell popularity fall down in coming year.

## Implications

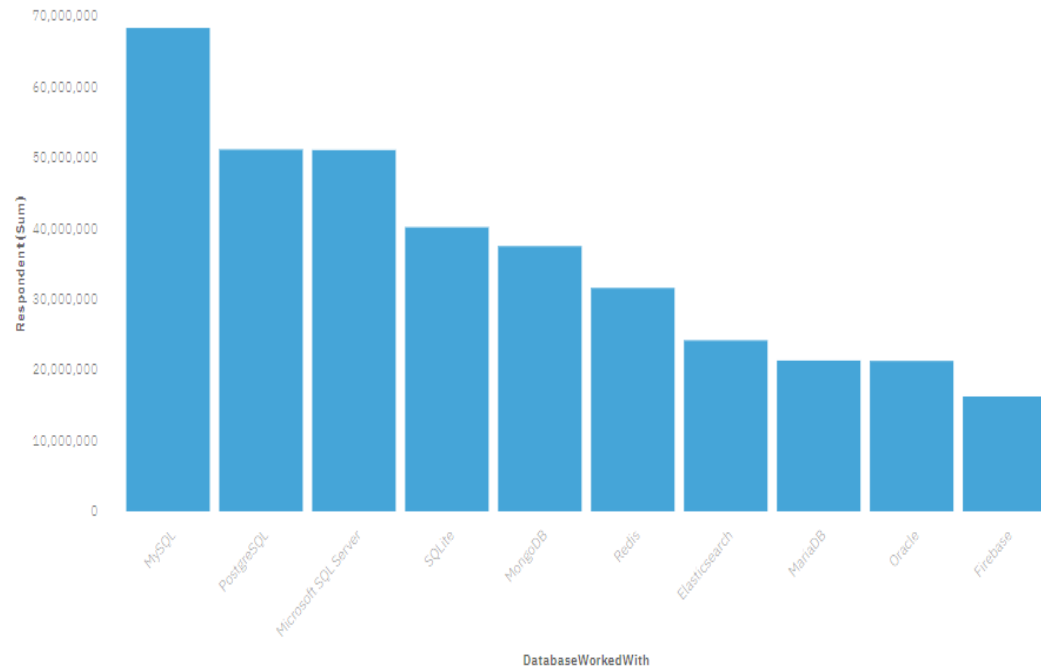
- Web Development is still in High Demand
- Python is the best choice in future as a technology.
- SQL still in high demand due to its vast application and use in Company.



# DATABASE TRENDS

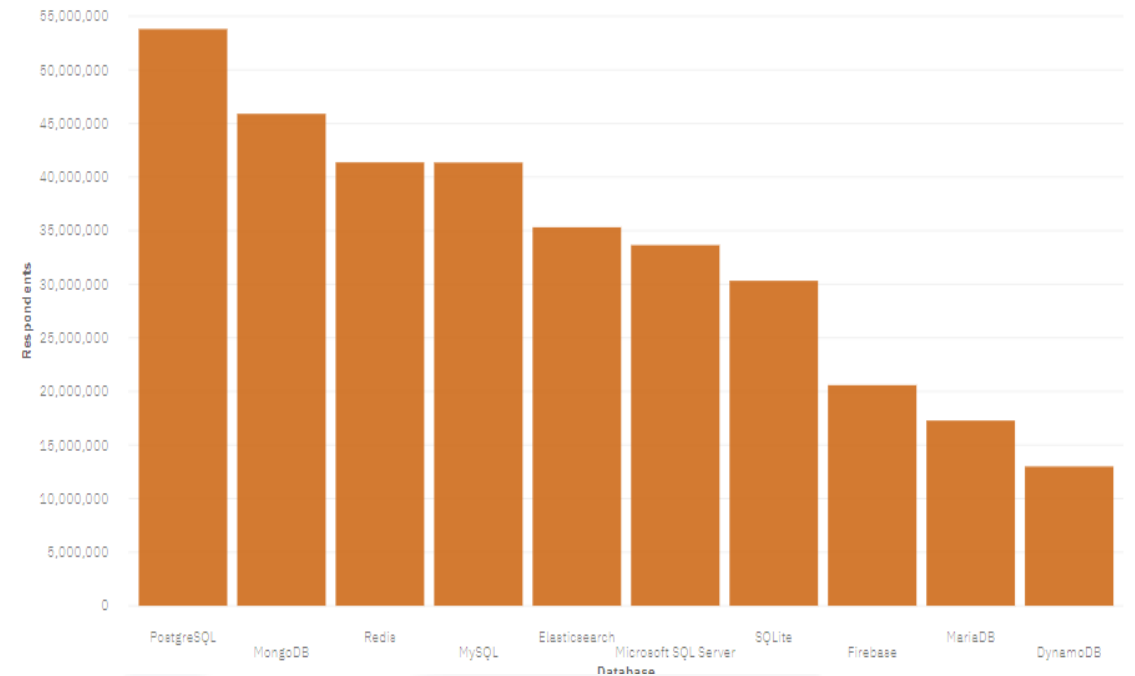
## Current Year

Top 10 Databases



## Next Year

Top 10 Database Desire Next Year



# DATABASE TRENDS - FINDINGS & IMPLICATIONS

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## Findings

- MySQL is topmost database used currently
- PostgreSQL and MongoDB are upcoming favorites
- Elasticsearch is also gaining popularity

## Implications

- Opensource databases are still used by many.
- Other NoSQL databases are used majorly to store non relational data.
- Redis and Elasticsearch can be the future of database tech.

# DASHBOARD

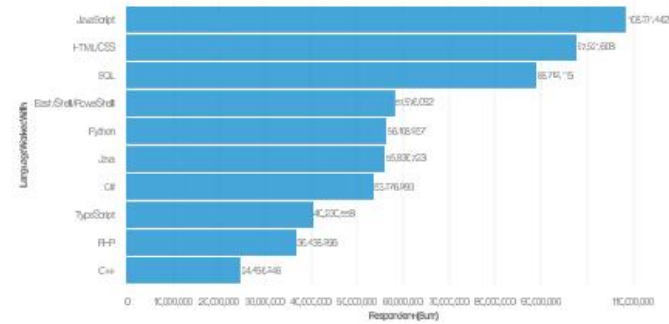
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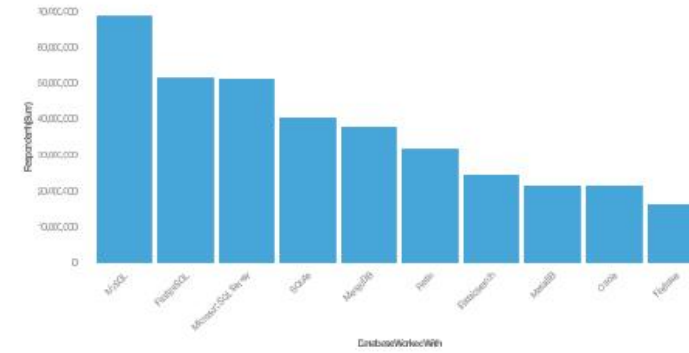
<https://datapatform.cloud.ibm.com/dashboards/9b28ec76-8d34-4165-ade8-5d796a13ce55/view/>

# DASHBOARD TAB 1

Top 10 Languages



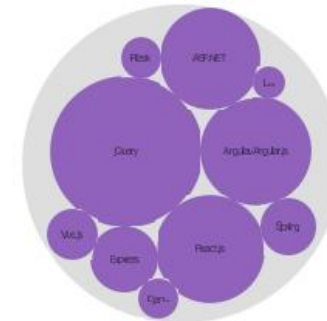
Top 10 Databases



Platform worked with currently



Top 10 WebFrame worked with Currently



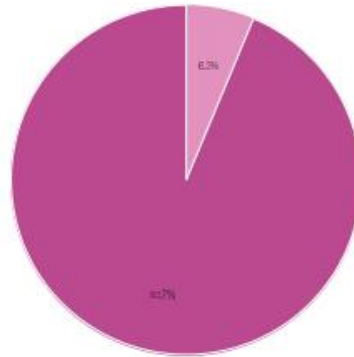
### Top 10 Language Desire Next Year



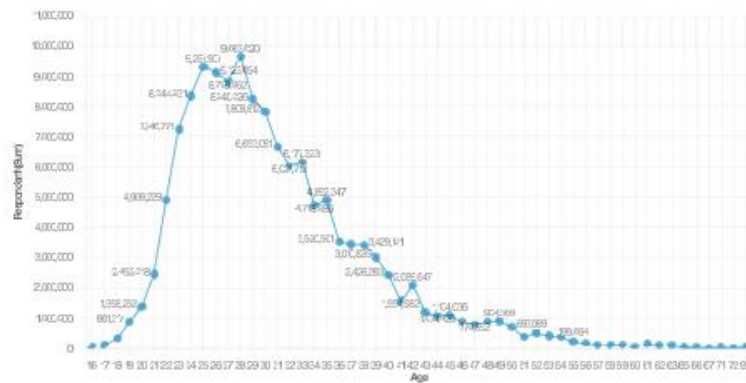
# DASHBOARD TAB 3

Respondent classified by Gender.

Gender  
Woman Man



Respondent Count by Age



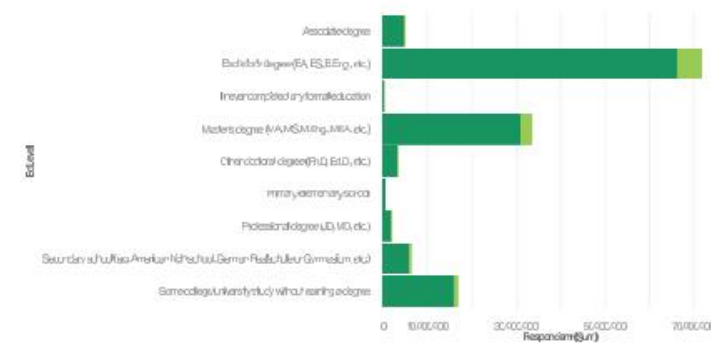
Respondent Count for Countries.

Respondent Count  
0 100 200 300 400 500 600 700 800 900 1000



Respondent Count by Gender, classified by Formal Education Level

Gender  
Man Woman



# DISCUSSION

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- Technology Trends
- Reskilling Workers
- Gender Equality
- Adaptation of new Technology
- Using Popular platforms
- Hiring new Tech. Workers

# OVERALL FINDINGS & IMPLICATIONS

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## Findings

- Rapid Changing Technology
- Concentration on Countries like USA and India
- Age & Gender Gap
- AWS and Docker gaining popularity

## Implications

- Companies should adapt new technologies
- Introduce Schemes to bridge the age and gender gap
- Increase the hiring for new Technology Jobs
- Use Docker and Cloud (AWS) for deployments of applications



# CONCLUSION

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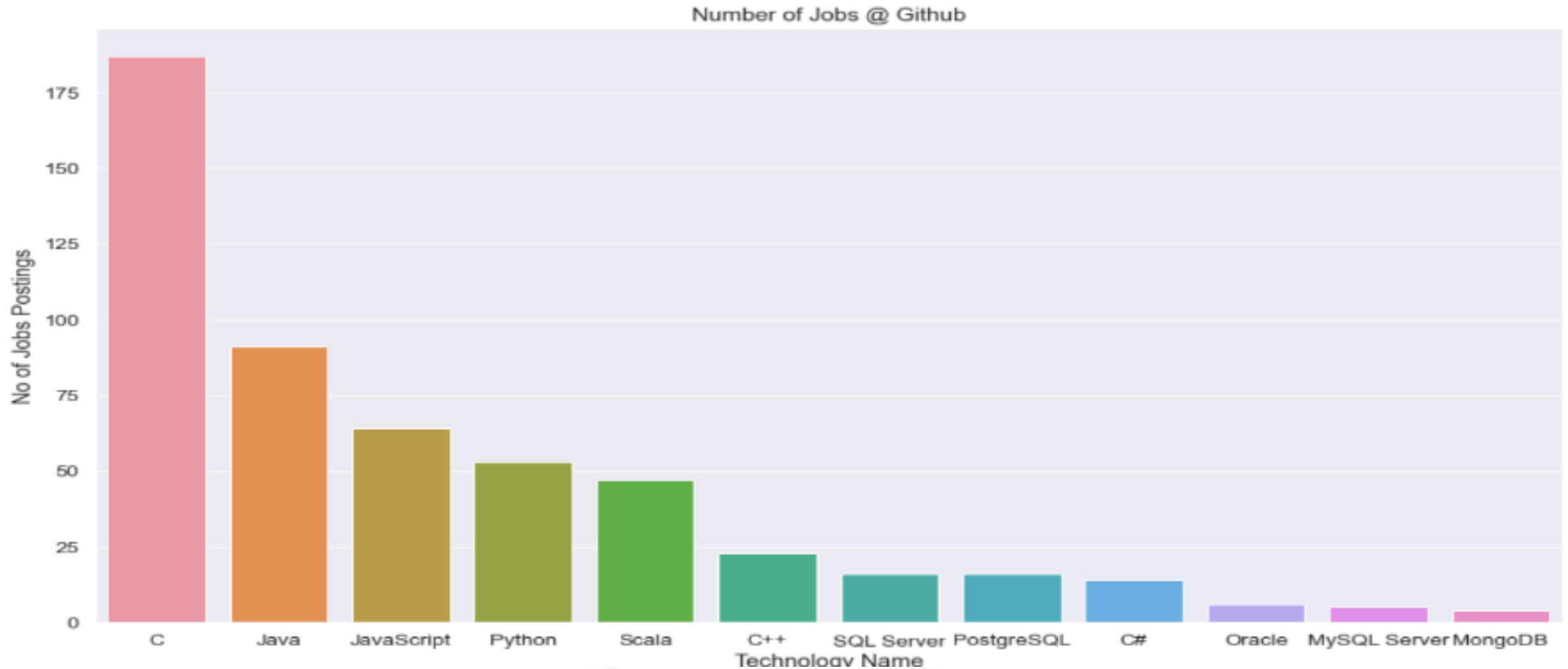


- Technology Trends
- Demographics Overviews
- Future Skills and preferences
- Technology to Adapt
- Preferred Actions

# APPENDIX



# JOB POSTINGS



# POPULAR LANGUAGES

